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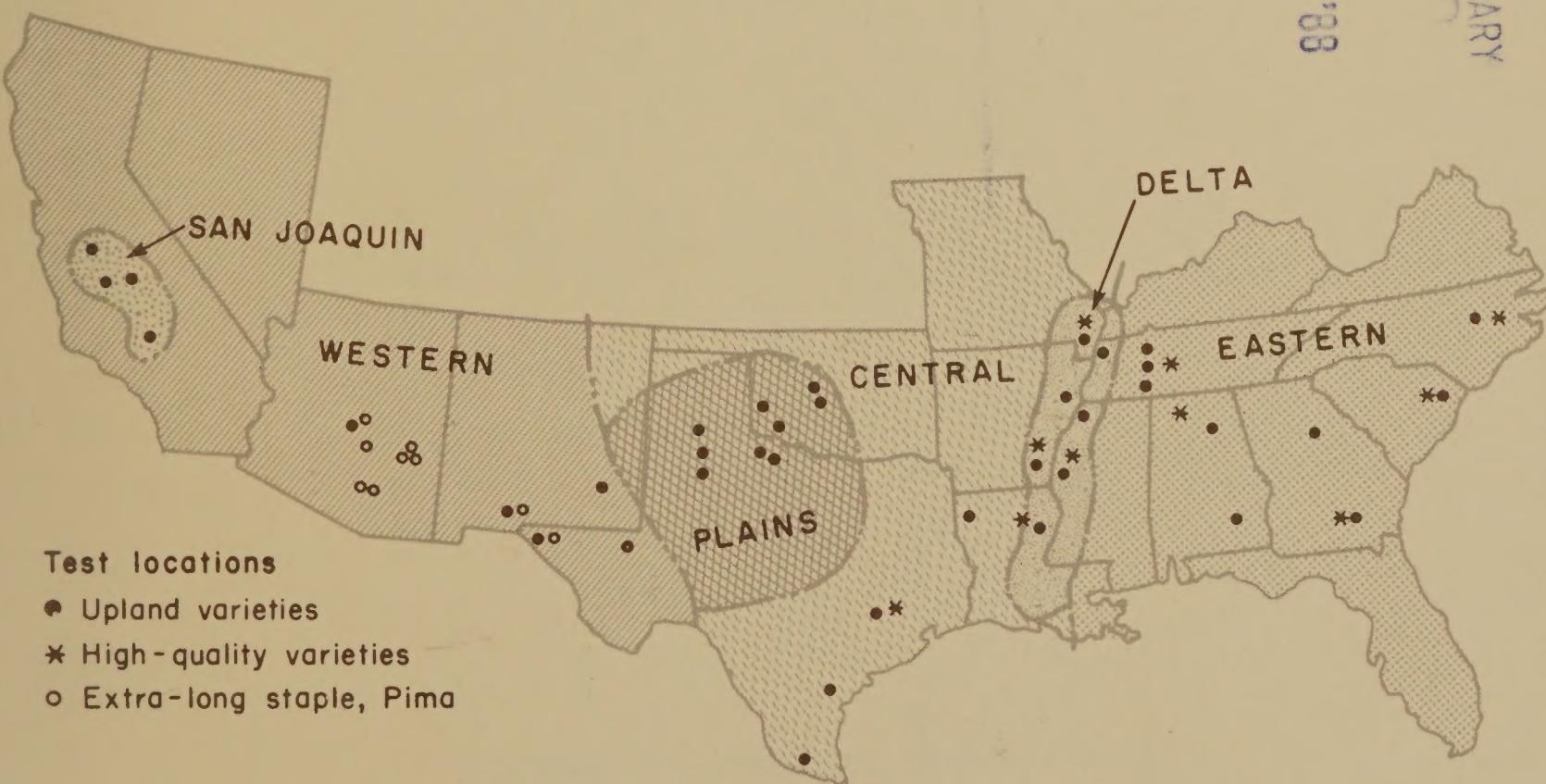
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Regional Cotton Variety Tests, 1976

Yield, Boll, and Spinning Data

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Science and Education Administration
U.S. Department of Agriculture

REGIONAL COTTON VARIETY TESTS, 1976

Yield, Boll, and Spinning Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratories, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas

U.S. COTTON RESEARCH STATION

Commodity

Agricultural Cotton Variety Testing

Commodity

AGRICULTURAL COTTON VARIETY TESTING

U.S. COTTON RESEARCH STATION
U.S. DEPARTMENT OF AGRICULTURE

Science and Education Administration
U.S. Department of Agriculture

The Regional Cotton Variety Test series is available free of charge from USDA's Cotton Quality Laboratory. Limited quantities of the following back issues are available:

| <u>Test year</u> | <u>Report</u> |
|------------------|---|
| 1968 | U.S. Agricultural Research Service [Report] ARS 34-113 |
| 1969 | " " " " " ARS 34-123 |
| 1970 | " " " " " ARS 34-130 |
| 1971 | " " " " " ARS-S-33 |
| 1972 | " " " " " ARS-S-62 |
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| 1977 | Not published |
| 1978 | U.S. Science and Education Administration, New Orleans, La. (pub. 1980) |

This report contains yield, boll, and spinning data. Fiber and seed data are not available at this time.

NEW ADDRESS FOR COTTON QUALITY LABORATORIES
Effective July 1980

USDA's Cotton Quality Laboratories are moving from Knoxville, Tenn., to New Orleans. The new mailing address is

Cotton Quality Laboratory,
Southern Regional Research Center,
P.O. Box 19687,
New Orleans, La. 70179.

Regional Cotton Variety Tests, 1976. Yield, Boll, and Spinning Data. Issued July 1980.

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. For the sixth 3-year cycle, beginning in 1975, the national standards were Acala 1517-70, Coker 310, Deltapine 16, and Paymaster 909. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the co-

operating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures. Yield, boll size, lint percentage, and seed index are supplied by the cooperating stations. Fiber samples are sent to the Cotton Quality Laboratories, Science and Education Administration, Knoxville, Tenn., where fiber and yarn tests are made. (Fiber data for 1976 samples are not yet available and do not appear in this report.) All data are assembled in the Cotton Quality Laboratories and are analyzed at the University of Tennessee computer center.

In 1976 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

REGIONAL TESTS AND PARTICIPATING STATIONS

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station
Sand Mountain Substation
Georgia Coastal Plain Experiment Station
Georgia College Experiment Station
Pee Dee Experiment Station
Upper Coastal Plain Experiment Station
West Tennessee Agricultural Experiment Station
Ames Plantation
Milan Field Station

Auburn, Ala.
Crossville, Ala.
Tifton, Ga.
Athens, Ga.
Florence, S.C.
Rocky Mount, N.C.
Jackson, Tenn.
Grand Junction, Tenn.
Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:
Delta Substation
Southeast Branch Experiment Station

Clarkedale, Ark.
Rohwer, Ark.

Mississippi Agricultural and Forestry Experiment

Station:

Delta Branch

Off-station test

Stoneville, Miss.

Tunica, Miss.

Missouri Agricultural Experiment Station,

Delta Center

Portageville, Mo.

Northeast Louisiana Experiment Station

St. Joseph, La.

West Tennessee Agricultural Experiment Station,

off-station test

Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station

Bossier City, La.

Texas A&M University:

Agricultural Research and Extension Center

Weslaco, Tex.

Agricultural Research Station, off-station test

Nueces County, Tex.

Texas Agricultural Experiment Station

College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:

Cotton Research Station:

Dryland test

Chickasha, Okla.

Irrigated test

Chickasha, Okla.

Irrigation Experiment Station

Altus, Okla.

Sandy Land Research Station

Mangum, Okla.

Texas A&M University:

Agricultural Research and Extension Center

(Chillicothe):

Dryland test

Chillicothe, Tex.

Irrigated test

Chillicothe, Tex.

Agricultural Research and Extension Center

(Lubbock):

Irrigated test

Lubbock, Tex.

Off-station tests

Halfway, Tex.

Lamesa, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station,

Phoenix, Ariz.

Cotton Research Center

Las Cruces, N. Mex.

New Mexico Agricultural Experiment Station

Artesia, N. Mex.

Southeastern Branch Station

El Paso, Tex.

Texas A&M University,

Agricultural Research Center

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:

West Side Field Station

Five Points, Calif.

Off-station tests

Madera, Calif.

Maricopa, Calif.

Woodville, Calif.

High-Quality Regional Cotton Variety Test

| | |
|---|-----------------------|
| Alabama Agricultural Experiment Station, Tennessee Valley Substation | Belle Mina, Ala. |
| Arkansas Agricultural Experiment Station, Southeast Branch | Rohwer, Ark. |
| Georgia Coastal Plain Experiment Station | Tifton, Ga. |
| Mississippi Agricultural and Forestry Experiment Station, Delta Branch | Stoneville, Miss. |
| Missouri Agricultural Experiment Station, Delta Center | Portageville, Mo. |
| Northeast Louisiana Experiment Station | St. Joseph, La. |
| Pee Dee Experiment Station | Florence, S.C. |
| Texas Agricultural Experiment Station | College Station, Tex. |
| Upper Coastal Plain Experiment Station | Rocky Mount, N.C. |
| West Tennessee Agricultural Experiment Station | Jackson, Tenn. |

Pima Regional Cotton Variety Test

| | |
|--|---------------------|
| Arizona Agricultural Experiment Station: | |
| Cotton Research Center | Phoenix, Ariz. |
| Off-station test | Coolidge, Ariz. |
| Marana Experimental Farm | Marana, Ariz. |
| Off-station test, Clark farm | Marana, Ariz. |
| Safford Branch Station | Safford, Ariz. |
| Off-station tests: | |
| Curtis farm | Safford, Ariz. |
| Pace farm | Safford, Ariz. |
| New Mexico Agricultural Experiment Station | Las Cruces, N. Mex. |
| Texas A&M University: | |
| Agricultural Research Center | El Paso, Tex. |
| Agricultural Research Station | Pecos, Tex. |

Combed-Yarn Test (American Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the data taken at Knoxville, Tenn., combed yarn tests of Pima cotton grown at three locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, U.S. Department of Agriculture, at its Clemson, S.C., laboratory. Classer's grade and staple, yarn tenacity of 11.8- and 7.4-tex (50's and 80's cotton count) yarns, appearance index, imperfections per 50 metres, and waste percentages are reported.

TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, and six replications were more commonly used. Boll size, lint percentage, seed index, and fiber and yarn data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first two

tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. (For some tests, subregional summaries are also included.) Following these tables, average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Boll size. The mass, in grams, per boll of seed cotton.

Classer's designation. A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for staple length involves both sight and touch and is made by pulling out and comparing a typical portion of fiber from a sample with the official staple types.

Colorimeter. These measurements were determined by the Nickerson-Hunter colorimeter (Spinlab model). Hunter's b value is a measure of increasing yellowness of the cotton. R_d is the percentage of the reflectance; the higher the value, the lighter the cotton.

Lint percent. The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Lint yield. The mean production of the plots harvested, expressed in pounds of lint per acre.

Micronaire. The fineness of the sample taken from the ginned lint, measured by the Micronaire and expressed in standard (curvilinear scale) micronaire units.

Seed index. The mass of 100 seeds, in grams.

Span length. Fiber length measured on the Digital Fibrograph. The distance spanned by a specified percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The 2.5-percent span length is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The 2.5-percent span length approximates classer's staple. The 50-percent span length is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

Tex. The linear density of fibers, filaments, and yarns, expressed as the mass, in milligrams, of 1 metre of fiber or yarn.

Waste. The difference in mass, expressed as a percentage, of the fed stock and delivered stock. Picker and card waste is the loss in mass during opening, picking, and carding. Comber waste is the loss in mass during combing.

Yarn appearance index. The relative evenness, smoothness, and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn imperfections. The abrupt changes in the silhouette of the yarn while passing through a beam of light, expressed as the number of such changes per 50 metres of yarn.

Yarn tenacity. The strength of the yarn, expressed in centinewtons per tex (cN/tex).

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 220 | 697 a | 6.15 de | 39.3 cde | 11.0 def | 5.02 cde |
| Deltapine 16 | 609 ab | 6.14 de | 38.0 gh | 11.3 cdef | 4.98 de |
| Deltapine 61 | 608 ab | 5.99 e | 38.5 fg | 11.1 def | 5.20 ab |
| Deltapine 55 | 603 ab | 5.72 fg | 40.6 ab | 10.4 g | 4.85 fg |
| Pee Dee 9241 | 601 ab | 5.60 g | 39.9 bcd | 11.5 c | 4.83 g |
| Deltapine 25 | 583 b | 5.65 g | 40.1 ab | 10.8 f | 5.12 abc |
| McNair 612 | 581 b | 5.96 ef | 40.7 a | 11.2 cdef | 5.18 ab |
| Coker 304 | 579 b | 5.90 ef | 30.0 abc | 10.9 f | 4.96 ef |
| Stoneville 603 | 574 b | 5.54 g | 38.2 gh | 10.9 ef | 5.00 de |
| Coker 310 | 560 b | 5.96 ef | 39.2 def | 11.3 cde | 4.92 efg |
| Coker 1104 | 554 b | 6.44 bc | 39.0 ef | 11.5 c | 4.94 efg |
| Stoneville 213 | 551 b | 5.73 fg | 38.6 fg | 10.9 ef | 5.23 a |
| Dixie King 3 | 514 bc | 6.64 b | 38.6 efg | 11.5 c | 4.83 g |
| Paymaster 909 | 412 cd | 7.14 a | 37.7 h | 13.3 a | 5.10 bcd |
| Acala 1517-70 | 405 d | 6.40 cd | 36.2 i | 12.5 b | 4.55 h |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|---------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 220 | 1.08 h | 0.51 ef | 73.7 cde | 8.4 d | 12.6 c |
| Deltapine 16 | 1.14 cd | .52 cde | 75.0 a | 8.8 abcd | 11.9 ef |
| Deltapine 61 | 1.13 cd | .53 bcd | 74.7 a | 8.7 abcd | 11.9 ef |
| Deltapine 55 | 1.12 de | .52 def | 73.8 bcd | 8.8 abcd | 12.1 de |
| Pee Dee 9241 | 1.13 cd | .55 a | 74.3 abc | 8.4 d | 13.4 b |
| Deltapine 25 | 1.11 ef | .52 def | 74.5 ab | 8.8 abcd | 12.0 ef |
| McNair 612 | 1.13 cd | .54 abc | 73.8 bcd | 8.4 d | 12.2 cde |
| Coker 304 | 1.16 ab | .53 bcd | 73.3 de | 8.6 bcd | 12.5 bc |
| Stoneville 603 | 1.10 fg | .50 fg | 73.1 de | 8.5 cd | 12.1 de |
| Coker 310 | 1.17 a | .53 bcd | 73.2 e | 9.2 a | 12.5 c |
| Coker 1104 | 1.15 bc | .54 abc | 73.6 cde | 9.0 ab | 12.2 cde |
| Stoneville 213 | 1.09 gh | .51 f | 73.7 cde | 9.0 ab | 11.6 f |
| Dixie King 3 | 1.08 gh | .51 ef | 72.9 e | 8.8 abcd | 12.0 ef |
| Paymaster 909 | .99 i | .49 g | 71.6 f | 9.0 ab | 11.1 g |
| Acala 1517-70 | 1.14 c | .54 ab | 73.4 de | 9.0 ab | 15.1 a |

Table 2.--Eastern test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|-----------------------|
| Florence, SC | 911 a | 6.28 b | 38.3 c | 11.5 c | 5.29 a |
| Athens, GA | 792 b | 6.76 a | 40.2 a | 10.5 g | 5.23 a |
| Jackson, TN | 656 c | 5.99 c | 38.4 c | 11.2 d ^e | 5.05 b |
| Tifton, GA | 637 c | 5.74 d | 40.1 a | 11.4 cd | 5.23 a |
| Auburn, AL | 493 d | 5.04 e | 40.4 a | 11.1 def | 5.30 a |
| Rocky Mount, NC ... | 477 d | 6.76 a | 39.3 b | 12.4 a | 5.06 b |
| Milan, TN | 449 e | 5.75 d | 38.4 c | 10.9 f | 4.59 c |
| Ames Plantation, TN | 434 e | 6.21 b | 39.1 b | 10.9 ef | 4.53 c |
| Crossville, AL | 209 f | 5.98 c | 36.6 d | 12.1 b | 4.55 c |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|---------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Florence, SC | 1.14 a | 0.54 ab | 76.8 a | 9.7 a | 12.8 a |
| Athens, GA | 1.14 a | .55 a | 73.4 c | 9.8 a | 12.5 ^a bc |
| Jackson, TN | 1.09 d | .49 f | 73.1 c | 9.5 a | 12.9 a |
| Tifton, GA | 1.11 c | .53 cd | 72.4 d | 9.3 c | 12.4 cd |
| Auburn, AL | 1.09 d | .49 f | 69.3 e | 7.4 d | 10.7 f |
| Rocky Mount, NC ... | 1.14 a | .53 bc | 74.5 b | 8.0 c | 12.9 a |
| Milan, TN | 1.12 b | .52 d | 76.8 a | 8.8 b | 12.8 ab |
| Ames Plantation, TN | 1.09 d | .51 e | 73.1 c | 8.7 b | 12.2 de |
| Crossville, AL | 1.12 b | .53 bc | 73.3 c | 8.7 b | 12.0 e |

Table 3.--Eastern test: Yield, boll, and spinning data for Florence, S.C.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|------------------------------|
| Pee Dee 9241 | 1058 a | 6.23 | 39.8 | 11.5 | 5.15 |
| McNair 220 | 1049 a | 6.28 | 38.4 | 11.1 | 5.30 |
| Deltapine 61 | 1010 ab | 6.08 | 39.2 | 10.2 | 5.60 |
| Coker 304 | 1006 ab | 6.09 | 38.6 | 10.9 | 5.35 |
| Deltapine 55 | 993 ab | 5.96 | 40.8 | 10.5 | 4.95 |
| McNair 612 | 987 abc | 6.19 | 39.7 | 12.7 | 5.60 |
| Deltapine 25 | 966 abc | 5.87 | 40.0 | 11.1 | 5.40 |
| Stoneville 603 | 951 abc | 5.98 | 38.1 | 11.1 | 5.50 |
| Coker 310 | 930 bcd | 6.19 | 38.7 | 11.0 | 5.15 |
| Stoneville 213 | 927 bcd | 5.97 | 39.2 | 11.2 | 5.60 |
| Coker 1104 | 920 bcd | 6.59 | 38.5 | 11.6 | 5.25 |
| Deltapine 16 | 879 cd | 6.29 | 37.0 | 11.1 | 5.25 |
| Dixie King 3 | 826 d | 6.77 | 36.3 | 12.1 | 5.10 |
| Acala 1517-70 | 615 e | 6.34 | 35.1 | 12.3 | 4.55 |
| Paymaster 909 | 555 e | 7.45 | 36.1 | 13.8 | 5.60 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R _d | Hunter's b value | Yarn tenacity (cN/tex) |
| | | | | | |
| Pee Dee 9241 | 1.13 | 0.56 | 77.2 | 9.1 | 13.7 |
| McNair 220 | 1.11 | .55 | 76.5 | 10.4 | 13.2 |
| Deltapine 61 | 1.15 | .56 | 78.2 | 8.4 | 12.4 |
| Coker 304 | 1.20 | .54 | 76.4 | 9.5 | 12.9 |
| Deltapine 55 | 1.14 | .52 | 77.5 | 9.6 | 13.2 |
| McNair 612 | 1.16 | .57 | 77.3 | 10.3 | 12.9 |
| Deltapine 25 | 1.16 | .55 | 77.8 | 10.3 | 12.5 |
| Stoneville 603 | 1.12 | .53 | 76.7 | 10.3 | 12.7 |
| Coker 310 | 1.19 | .55 | 76.2 | 9.5 | 13.0 |
| Stoneville 213 | 1.12 | .53 | 75.9 | 9.3 | 12.2 |
| Coker 1104 | 1.18 | .56 | 76.2 | 10.3 | 12.7 |
| Deltapine 16 | 1.18 | .56 | 78.5 | 9.2 | 12.2 |
| Dixie King 3 | 1.13 | .55 | 76.9 | 9.7 | 12.3 |
| Acala 1517-70 | 1.17 | .56 | 75.5 | 10.3 | 15.4 |
| Paymaster 909 | 1.00 | .51 | 75.2 | 9.7 | 11.3 |

Table 4.--Eastern test: Yield, boll, and spinning data for Athens, Ga.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 220 | 1036 a | 7.28 | 40.4 | 10.1 | 5.30 |
| Coker 310 | 897 ab | 6.52 | 41.4 | 10.4 | 5.15 |
| Pee Dee 9241 | 851 b | 5.84 | 42.5 | 10.8 | 5.20 |
| Deltapine 16 | 826 b | 6.84 | 38.8 | 11.0 | 4.95 |
| Deltapine 61 | 820 b | 6.57 | 37.9 | 10.7 | 5.40 |
| Deltapine 25 | 819 b | 6.37 | 41.4 | 10.2 | 5.40 |
| Dixie King 3 | 809 b | 7.48 | 41.4 | 10.3 | 5.25 |
| Deltapine 55 | 805 b | 6.66 | 42.6 | 9.6 | 5.25 |
| McNair 612 | 782 b | 6.39 | 41.9 | 9.7 | 5.40 |
| Coker 1104 | 757 bc | 7.51 | 40.1 | 10.6 | 5.05 |
| Coker 304 | 745 bc | 6.33 | 40.8 | 9.6 | 5.20 |
| Acala 1517-70 | 728 bc | 6.82 | 37.5 | 11.8 | 4.65 |
| Stoneville 603 | 719 bc | 6.18 | 39.3 | 10.3 | 5.30 |
| Stoneville 213 | 713 bc | 6.66 | 38.5 | 10.3 | 5.45 |
| Paymaster 909 | 580 c | 8.00 | 39.0 | 12.8 | 5.60 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 220 | 1.13 | 0.54 | 75.3 | 10.4 | 12.9 |
| Coker 310 | 1.16 | .53 | 73.0 | 10.1 | 12.7 |
| Pee Dee 9241 | 1.13 | .58 | 74.2 | 9.8 | 13.5 |
| Deltapine 16 | 1.17 | .56 | 75.0 | 10.3 | 12.0 |
| Deltapine 61 | 1.20 | .58 | 74.1 | 9.6 | 12.3 |
| Deltapine 25 | 1.15 | .55 | 74.5 | 9.7 | 12.3 |
| Dixie King 3 | 1.08 | .52 | 72.3 | 9.9 | 11.6 |
| Deltapine 55 | 1.16 | .55 | 72.9 | 9.4 | 12.3 |
| McNair 612 | 1.17 | .59 | 73.8 | 9.5 | 12.5 |
| Coker 1104 | 1.18 | .54 | 72.5 | 9.9 | 12.2 |
| Coker 304 | 1.20 | .58 | 72.8 | 9.1 | 13.1 |
| Acala 1517-70 | 1.16 | .58 | 73.3 | 9.8 | 15.0 |
| Stoneville 603 | 1.13 | .53 | 74.1 | 9.4 | 12.3 |
| Stoneville 213 | 1.13 | .55 | 71.7 | 9.9 | 11.9 |
| Paymaster 909 | 1.02 | .52 | 72.5 | 10.6 | 11.2 |

Table 5.--Eastern test: Yield, boll, and spinning data for Rocky Mount, N.C.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 220 | 797 a | 6.68 | 40.0 | 12.1 | 5.00 |
| Deltapine 55 | 598 b | 6.55 | 41.2 | 11.1 | 4.90 |
| Pee Dee 9241 | 569 bc | 6.20 | 39.5 | 13.0 | 5.00 |
| Deltapine 25 | 507 bcd | 6.12 | 41.0 | 11.4 | 5.15 |
| Deltapine 16 | 498 bcd | 7.07 | 37.7 | 12.5 | 5.10 |
| Dixie King 3 | 477 cd | 7.73 | 39.2 | 12.7 | 5.00 |
| Coker 310 | 469 cde | 6.76 | 40.1 | 12.3 | 5.05 |
| Stoneville 603 | 453 cde | 6.08 | 38.5 | 11.6 | 5.00 |
| Stoneville 213 | 451 cde | 6.21 | 39.3 | 11.8 | 5.40 |
| Coker 304 | 441 de | 6.57 | 40.4 | 11.8 | 5.10 |
| Deltapine 61 | 438 de | 6.88 | 38.7 | 12.0 | 5.35 |
| McNair 612 | 412 def | 6.31 | 40.6 | 12.5 | 5.45 |
| Coker 1104 | 383 def | 7.11 | 39.2 | 12.5 | 4.90 |
| Acala 1517-70 | 351 ef | 7.34 | 37.1 | 14.1 | 4.60 |
| Paymaster 909 | 318 f | 7.87 | 37.0 | 14.6 | 5.00 |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 220 | 1.13 | 0.54 | 74.7 | 7.5 | 13.4 |
| Deltapine 55 | 1.13 | .52 | 73.6 | 7.8 | 12.4 |
| Pee Dee 9241 | 1.19 | .57 | 75.5 | 7.9 | 14.0 |
| Deltapine 25 | 1.12 | .53 | 76.1 | 8.2 | 11.9 |
| Deltapine 16 | 1.14 | .54 | 76.6 | 8.1 | 12.2 |
| Dixie King 3 | 1.09 | .53 | 74.5 | 7.8 | 12.8 |
| Coker 310 | 1.19 | .56 | 73.4 | 9.1 | 13.2 |
| Stoneville 603 | 1.14 | .53 | 74.2 | 8.0 | 12.6 |
| Stoneville 213 | 1.10 | .50 | 74.9 | 8.2 | 11.9 |
| Coker 304 | 1.17 | .52 | 74.9 | 8.1 | 13.3 |
| Deltapine 61 | 1.16 | .55 | 76.5 | 8.2 | 12.0 |
| McNair 612 | 1.19 | .57 | 74.0 | 7.9 | 12.6 |
| Coker 1104 | 1.14 | .54 | 74.4 | 7.8 | 13.7 |
| Acala 1517-70 | 1.18 | .54 | 73.1 | 7.9 | 15.7 |
| Paymaster 909 | 1.01 | .49 | 70.8 | 8.1 | 11.8 |

Table 6.--Eastern test: Yield, boll, and spinning data for Jackson, Tenn.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 612 | 761 a | 6.25 | 39.5 | 11.7 | 5.10 |
| McNair 220 | 742 ab | 6.32 | 39.4 | 10.5 | 5.10 |
| Stoneville 213 | 713 abc | 5.57 | 38.9 | 10.2 | 5.50 |
| Stoneville 603 | 686 abc | 5.77 | 38.8 | 10.8 | 5.25 |
| Deltapine 25 | 682 abc | 5.44 | 41.2 | 10.4 | 5.55 |
| Coker 304 | 678 abcd | 5.90 | 37.6 | 11.2 | 4.70 |
| Dixie King 3 | 669 bcd | 6.70 | 37.2 | 11.6 | 4.70 |
| Pee Dee 9241 | 664 bcd | 5.36 | 39.9 | 11.1 | 4.95 |
| Deltapine 61 | 650 cd | 5.92 | 37.9 | 11.0 | 5.20 |
| Deltapine 16 | 648 cd | 6.00 | 37.4 | 11.2 | 5.00 |
| Coker 310 | 644 cd | 5.74 | 37.3 | 11.2 | 4.80 |
| Deltapine 55 | 628 cd | 5.84 | 39.6 | 10.1 | 4.90 |
| Coker 1104 | 595 de | 6.15 | 38.5 | 11.5 | 5.00 |
| Paymaster 909 | 548 e | 6.85 | 38.2 | 13.0 | 5.20 |
| Acala 1517-70 | 527 e | 6.07 | 34.8 | 12.3 | 5.55 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 612 | 1.13 | 0.51 | 72.5 | 8.0 | 13.3 |
| McNair 220 | 1.05 | .47 | 72.6 | 8.6 | 12.9 |
| Stoneville 213 | 1.04 | .48 | 72.8 | 9.9 | 11.7 |
| Stoneville 603 | 1.03 | .45 | 71.3 | 8.4 | 11.8 |
| Deltapine 25 | 1.07 | .49 | 74.6 | 10.4 | 11.8 |
| Coker 304 | 1.17 | .52 | 72.9 | 9.7 | 14.0 |
| Dixie King 3 | 1.04 | .48 | 73.5 | 8.8 | 18.2 |
| Pee Dee 9241 | 1.09 | .53 | 73.7 | 9.1 | 13.9 |
| Deltapine 61 | 1.09 | .50 | 73.1 | 10.1 | 13.0 |
| Deltapine 16 | 1.13 | .51 | 73.0 | 10.1 | 12.6 |
| Coker 310 | 1.15 | .49 | 73.9 | 10.4 | 13.2 |
| Deltapine 55 | 1.14 | .52 | 74.6 | 9.7 | 13.2 |
| Coker 1104 | 1.13 | .52 | 74.7 | 10.4 | 12.8 |
| Paymaster 909 | .98 | .48 | 70.2 | 9.8 | 12.6 |
| Acala 1517-70 | 1.07 | .49 | 74.6 | 10.4 | 11.8 |

Table 7.--Eastern test: Yield, boll, and spinning data for Tifton, Ga.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Deltapine 61 | 733 a | 6.22 | 40.5 | 11.4 | 5.55 |
| McNair 612 | 725 a | 5.94 | 41.4 | 11.3 | 5.55 |
| Pee Dee 9241 | 723 a | 5.52 | 39.8 | 11.8 | 5.05 |
| McNair 220 | 707 a | 5.62 | 39.6 | 11.4 | 5.10 |
| Deltapine 16 | 693 ab | 6.09 | 39.7 | 11.1 | 5.25 |
| Deltapine 25 | 687 abc | 5.31 | 42.5 | 10.6 | 5.50 |
| Deltapine 55 | 680 abc | 5.66 | 42.5 | 11.0 | 5.15 |
| Stoneville 213 | 679 abc | 5.65 | 41.8 | 10.6 | 5.75 |
| Coker 304 | 674 abc | 6.72 | 42.0 | 11.3 | 5.45 |
| Coker 1104 | 658 abc | 5.89 | 39.2 | 11.5 | 5.20 |
| Dixie King 3 | 598 bc | 5.92 | 39.2 | 11.2 | 5.00 |
| Coker 310 | 588 bc | 5.35 | 41.3 | 11.3 | 5.10 |
| Stoneville 603 | 584 c | 5.12 | 38.9 | 11.1 | 5.30 |
| Acala 1517-70 | 458 d | 5.85 | 35.8 | 12.0 | 4.60 |
| Paymaster 909 | 370 d | 6.38 | 37.6 | 13.7 | 5.00 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Deltapine 61 | 1.13 | 0.55 | 75.0 | 8.2 | 12.2 |
| McNair 612 | 1.12 | .55 | 72.7 | 8.1 | 12.6 |
| Pee Dee 9241 | 1.15 | .56 | 71.6 | 7.9 | 13.5 |
| McNair 220 | 1.10 | .52 | 73.5 | 8.2 | 11.8 |
| Deltapine 16 | 1.13 | .52 | 75.8 | 8.0 | 11.7 |
| Deltapine 25 | 1.07 | .52 | 72.4 | 7.8 | 12.6 |
| Deltapine 55 | 1.12 | .54 | 72.9 | 8.1 | 12.0 |
| Stoneville 213 | 1.06 | .51 | 72.0 | 9.5 | 11.8 |
| Coker 304 | 1.14 | .55 | 71.4 | 8.1 | 12.7 |
| Coker 1104 | 1.16 | .54 | 72.2 | 8.4 | 12.2 |
| Dixie King 3 | 1.06 | .51 | 72.4 | 8.0 | 12.2 |
| Coker 310 | 1.18 | .54 | 71.5 | 8.3 | 13.0 |
| Stoneville 603 | 1.12 | .52 | 71.7 | 7.7 | 12.4 |
| Acala 1517-70 | 1.14 | .55 | 73.2 | 8.8 | 15.4 |
| Paymaster 909 | .97 | .48 | 67.7 | 9.4 | 10.1 |

Table 8.--Eastern test: Yield, boll, and spinning data for Milan, Tenn.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Deltapine 16 | 676 a | 5.85 | 37.9 | 10.3 | 4.75 |
| Deltapine 61 | 609 ab | 5.64 | 37.9 | 10.4 | 4.80 |
| Deltapine 55 | 592 abc | 5.42 | 40.0 | 9.8 | 4.45 |
| Deltapine 25 | 515 bcd | 5.31 | 38.8 | 10.8 | 4.90 |
| Stoneville 603 | 481 cde | 5.49 | 37.1 | 11.0 | 4.70 |
| McNair 220 | 465 de | 5.70 | 39.3 | 10.6 | 4.70 |
| Coker 304 | 453 de | 5.49 | 39.4 | 10.3 | 4.35 |
| Coker 310 | 438 de | 5.72 | 38.3 | 11.1 | 4.60 |
| Coker 1104 | 430 de | 6.37 | 38.3 | 11.7 | 4.55 |
| Paymaster 909 | 415 def | 7.18 | 38.5 | 13.0 | 5.00 |
| McNair 612 | 372 efg | 5.36 | 40.4 | 9.9 | 4.25 |
| Pee Dee 9241 | 362 efg | 4.99 | 39.4 | 10.4 | 4.05 |
| Stoneville 213 | 362 efg | 5.41 | 36.7 | 11.1 | 4.95 |
| Acala 1517-70 | 298 fg | 6.32 | 36.2 | 12.4 | 4.40 |
| Dixie King 3 | 260 g | 6.07 | 38.6 | 10.9 | 4.35 |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| Deltapine 16 | 1.15 | 0.52 | 78.9 | 8.7 | 12.3 |
| Deltapine 61 | 1.14 | .51 | 78.2 | 8.6 | 11.8 |
| Deltapine 55 | 1.10 | .49 | 78.3 | 8.7 | 12.3 |
| Deltapine 25 | 1.17 | .54 | 78.7 | 8.4 | 12.7 |
| Stoneville 603 | 1.11 | .52 | 76.3 | 9.6 | 13.3 |
| McNair 220 | 1.11 | .51 | 77.2 | 8.2 | 13.2 |
| Coker 304 | 1.18 | .54 | 75.2 | 8.4 | 12.3 |
| Coker 310 | 1.20 | .55 | 75.2 | 9.5 | 13.0 |
| Coker 1104 | 1.17 | .55 | 76.7 | 8.6 | 12.6 |
| Paymaster 909 | .99 | .51 | 75.0 | 8.5 | 11.6 |
| McNair 612 | 1.10 | .51 | 77.7 | 8.6 | 12.7 |
| Pee Dee 9241 | 1.14 | .53 | 77.9 | 8.5 | 13.9 |
| Stoneville 213 | 1.10 | .51 | 76.3 | 10.3 | 12.1 |
| Acala 1517-70 | 1.14 | .54 | 74.1 | 8.5 | 15.1 |
| Dixie King 3 | 1.11 | .51 | 76.3 | 8.8 | 12.5 |

Table 9.--Eastern test: Yield, boll, and spinning data for Ames Plantation, Tenn.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 220 | 579 a | 6.37 | 39.9 | 10.4 | 4.50 |
| Deltapine 16 | 515 ab | 6.02 | 38.9 | 11.0 | 4.55 |
| Stoneville 603 | 500 ab | 5.44 | 37.5 | 10.4 | 4.25 |
| Deltapine 55 | 486 abc | 5.36 | 40.3 | 9.9 | 4.35 |
| Deltapine 61 | 461 bcd | 5.79 | 38.7 | 10.6 | 4.75 |
| McNair 612 | 447 bcde | 6.27 | 41.4 | 10.6 | 4.90 |
| Stoneville 213 | 443 bcde | 5.85 | 37.5 | 10.5 | 4.60 |
| Coker 304 | 436 bcde | 6.20 | 41.1 | 10.6 | 4.55 |
| Deltapine 25 | 429 bcde | 5.36 | 39.4 | 10.4 | 4.40 |
| Pee Dee 9241 | 417 bcde | 5.64 | 40.1 | 11.3 | 4.35 |
| Coker 1104 | 392 cdef | 6.85 | 38.9 | 11.5 | 4.70 |
| Paymaster 909 | 386 cdef | 7.68 | 38.0 | 12.7 | 4.60 |
| Dixie King 3 | 365 def | 7.11 | 38.6 | 11.5 | 4.45 |
| Coker 310 | 343 ef | 6.22 | 39.2 | 11.1 | 4.60 |
| Acala 1517-70 | 304 f | 7.08 | 36.6 | 12.1 | 4.45 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 220 | 1.06 | 0.50 | 72.5 | 7.9 | 12.6 |
| Deltapine 16 | 1.11 | .52 | 73.8 | 8.0 | 12.1 |
| Stoneville 603 | 1.07 | .49 | 72.7 | 8.4 | 11.7 |
| Deltapine 55 | 1.07 | .48 | 73.5 | 8.1 | 12.1 |
| Deltapine 61 | 1.08 | .49 | 74.2 | 8.5 | 11.9 |
| McNair 612 | 1.10 | .51 | 73.8 | 7.9 | 11.7 |
| Stoneville 213 | 1.07 | .49 | 74.5 | 8.3 | 11.5 |
| Coker 304 | 1.12 | .52 | 72.8 | 9.3 | 11.5 |
| Deltapine 25 | 1.06 | .49 | 74.0 | 8.0 | 11.8 |
| Pee Dee 9241 | 1.13 | .53 | 72.7 | 8.0 | 13.5 |
| Coker 1104 | 1.13 | .54 | 72.4 | 10.0 | 12.1 |
| Paymaster 909 | .98 | .49 | 72.5 | 9.3 | 11.1 |
| Dixie King 3 | 1.07 | .51 | 72.0 | 9.2 | 11.5 |
| Coker 310 | 1.13 | .53 | 73.2 | 9.2 | 12.1 |
| Acala 1517-70 | 1.16 | .56 | 72.6 | 10.1 | 15.5 |

Table 10.--Eastern test: Yield, boll, and spinning data for Auburn, Ala.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Coker 1104 | 579 a | 5.24 | 40.4 | 10.8 | 5.20 |
| McNair 220 | 548 ab | 5.16 | 40.1 | 10.9 | 5.50 |
| Deltapine 61 | 544 ab | 5.01 | 39.9 | 11.5 | 5.60 |
| Stoneville 213 | 540 ab | 4.95 | 40.4 | 10.8 | 5.50 |
| McNair 612 | 536 ab | 4.77 | 42.3 | 10.7 | 5.50 |
| Deltapine 16 | 533 ab | 5.29 | 40.4 | 11.5 | 5.60 |
| Stoneville 603 | 531 ab | 4.43 | 39.7 | 10.5 | 5.20 |
| Coker 304 | 509 ab | 5.13 | 42.3 | 11.1 | 5.35 |
| Deltapine 55 | 501 ab | 4.80 | 41.6 | 10.2 | 5.40 |
| Pee Dee 9241 | 490 abc | 4.56 | 40.1 | 11.6 | 5.10 |
| Deltapine 25 | 482 abc | 5.10 | 42.0 | 10.5 | 5.50 |
| Coker 310 | 473 abc | 4.99 | 40.2 | 11.2 | 5.35 |
| Dixie King 3 | 467 bc | 5.45 | 40.1 | 11.3 | 5.15 |
| Paymaster 909 | 397 c | 6.03 | 39.4 | 12.7 | 5.15 |
| Acala 1517-70 | 262 d | 4.80 | 37.3 | 12.2 | 4.40 |

| Span length (inches) | Colorimeter | | Yarn tenacity (cN/tex) | | |
|----------------------|-------------|------|------------------------------|----------------------------|------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Coker 1104 | 1.11 | 0.50 | 69.3 | 7.7 | 9.9 |
| McNair 220 | 1.06 | .49 | 67.9 | 7.1 | 11.1 |
| Deltapine 61 | 1.11 | .51 | 71.0 | 7.7 | 10.2 |
| Stoneville 213 | 1.09 | .49 | 70.3 | 7.8 | 10.2 |
| McNair 612 | 1.10 | .51 | 68.5 | 7.3 | 10.5 |
| Deltapine 16 | 1.12 | .50 | 70.9 | 7.9 | 10.1 |
| Stoneville 603 | 1.09 | .49 | 66.9 | 7.0 | 10.3 |
| Coker 304 | 1.10 | .48 | 68.9 | 7.2 | 10.8 |
| Deltapine 55 | 1.10 | .49 | 68.9 | 6.9 | 10.2 |
| Pee Dee 9241 | 1.11 | .52 | 71.8 | 7.3 | 11.7 |
| Deltapine 25 | 1.08 | .49 | 70.1 | 7.0 | 10.9 |
| Coker 310 | 1.14 | .50 | 68.8 | 7.4 | 10.6 |
| Dixie King 3 | 1.07 | .49 | 67.0 | 6.7 | 10.6 |
| Paymaster 909 | .97 | .46 | 67.2 | 7.8 | 9.8 |
| Acala 1517-70 | 1.13 | .52 | 72.4 | 7.8 | 14.4 |

Table 11.--Eastern test: Yield, boll, and spinning data for Crossville, Ala.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 220 | 353 a | 5.98 | 37.3 | 12.2 | 4.70 |
| Coker 1104 | 275 b | 6.25 | 37.9 | 12.0 | 4.65 |
| Pee Dee 9241 | 271 b | 6.06 | 38.7 | 12.4 | 4.65 |
| Coker 304 | 265 b | 5.74 | 38.0 | 11.2 | 4.60 |
| Coker 310 | 257 b | 6.18 | 36.8 | 11.9 | 4.50 |
| Stoneville 603 | 257 b | 5.40 | 36.1 | 11.6 | 4.50 |
| Deltapine 16 | 216 bc | 4.81 | 34.5 | 12.3 | 4.40 |
| Deltapine 61 | 211 bc | 5.84 | 35.8 | 12.2 | 4.55 |
| McNair 612 | 207 bc | 6.16 | 39.6 | 11.4 | 4.90 |
| Deltapine 25 | 158 cd | 6.01 | 34.9 | 12.3 | 4.35 |
| Dixie King 3 | 154 cd | 6.60 | 37.1 | 12.0 | 4.55 |
| Deltapine 55 | 140 cd | 5.35 | 36.8 | 11.4 | 4.35 |
| Paymaster 909 | 137 cd | 6.87 | 35.5 | 14.0 | 4.75 |
| Stoneville 213 | 133 cd | 5.37 | 35.2 | 11.7 | 4.40 |
| Acala 1517-70 | 102 d | 6.13 | 35.5 | 13.1 | 4.50 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 220 | 1.09 | 0.52 | 73.1 | 7.6 | 12.2 |
| Coker 1104 | 1.14 | .55 | 74.0 | 7.7 | 11.9 |
| Pee Dee 9241 | 1.15 | .57 | 74.2 | 7.8 | 12.7 |
| Coker 304 | 1.15 | .54 | 74.0 | 7.8 | 12.1 |
| Coker 310 | 1.18 | .56 | 73.8 | 9.1 | 12.3 |
| Stoneville 603 | 1.09 | .49 | 73.7 | 7.8 | 11.9 |
| Deltapine 16 | 1.12 | .51 | 73.1 | 9.3 | 11.9 |
| Deltapine 61 | 1.15 | .56 | 72.4 | 9.2 | 11.5 |
| McNair 612 | 1.13 | .55 | 74.2 | 7.9 | 11.3 |
| Deltapine 25 | 1.13 | .52 | 72.4 | 9.6 | 11.8 |
| Dixie King 3 | 1.09 | .53 | 71.1 | 10.8 | 11.8 |
| Deltapine 55 | 1.15 | .56 | 72.3 | 10.8 | 11.5 |
| Paymaster 909 | 1.01 | .51 | 73.7 | 8.2 | 10.7 |
| Stoneville 213 | 1.11 | .52 | 74.9 | 8.3 | 11.7 |
| Acala 1517-70 | 1.13 | .55 | 73.6 | 8.4 | 14.7 |

DELTA REGIONAL COTTON VARIETY TEST

Table 12.--Delta test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Stoneville 213 | 816 a | 5.24 e | 37.7 cd | 10.8 f | 4.83 a |
| Deltapine 55 | 806 a | 5.32 e | 39.9 a | 10.3 g | 4.51 d |
| Stoneville 256 | 786 a | 5.17 e | 37.6 cd | 11.0 ef | 4.79 ab |
| Coker 310 | 785 a | 5.69 c | 38.5 bc | 11.4 de | 4.58 cd |
| Stoneville 731N ... | 782 a | 5.18 e | 39.2 ab | 11.1 ef | 4.75 ab |
| Brycot 4 | 757 a | 5.36 de | 37.7 cd | 11.5 d | 4.72 abc |
| Delcot 277 | 749 a | 5.87 bc | 38.0 cd | 12.3 c | 4.33 e |
| Deltapine 16 | 741 a | 5.61 cd | 37.8 cd | 11.2 def | 4.68 abc |
| Acala 1517-70 | 617 b | 6.12 ab | 38.2 e | 13.2 b | 4.62 bcd |
| Paymaster 909 | 501 c | 6.18 a | 37.0 de | 13.7 a | 4.81 a |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------------|----------------------|--------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | \bar{R}_d | Hunter's <i>b</i> value | |
| Stoneville 213 | 1.11 de | 0.51 c | 73.5 ab | 8.1 bcd | 11.8 d |
| Deltapine 55 | 1.13 cd | .52 c | 73.9 ab | 9.0 ab | 12.7 bc |
| Stoneville 256 | 1.11 e | .50 de | 74.3 ab | 8.5 abc | 12.0 cd |
| Coker 310 | 1.18 a | .54 a | 73.2 bc | 7.7 cd | 13.0 b |
| Stoneville 731N ... | 1.11 e | .50 d | 74.5 a | 7.4 d | 11.7 d |
| Brycot 4 | 1.10 e | .49 e | 73.4 ab | 8.8 ab | 12.2 bcd |
| Delcot 277 | 1.15 b | .53 ab | 73.3 bc | 9.3 a | 12.9 b |
| Deltapine 16 | 1.13 c | .52 bc | 74.5 a | 7.7 cd | 12.7 bc |
| Acala 1517-70 | 1.14 bc | .54 a | 73.2 bc | 8.2 bcd | 15.3 a |
| Paymaster 909 | .99 f | .49 e | 72.2 c | 7.9 cd | 12.8 bc |

Table 13.--Delta test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| St. Joseph, LA | 1210 a | 6.11 a | 39.8 a | 12.0 c | 5.20 a |
| Portageville, MO .. | 932 b | 6.26 a | 38.2 bc | 12.9 a | 4.42 d |
| Rohwer, AR | 761 c | 5.32 c | 38.5 b | --- | 5.04 b |
| Stoneville, MS | 569 d | 5.24 c | 37.5 cd | 10.4 e | 4.54 d |
| Tunica, MS | 491 e | 5.18 c | 38.7 b | 10.7 d | 4.84 c |
| Ridgely, TN | 440 f | 5.70 b | 36.8 de | 12.4 b | 4.77 c |
| Clarkdale, AR | --- | 5.22 c | 36.3 e | --- | 3.84 e |

| Span length (inches) | Colorimeter | | Yarn tenacity (cN/tex) | | |
|----------------------|-------------|---------|------------------------------|----------------------------|--------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| St. Joseph, LA | 1.15 a | 0.53 ab | 75.2 b | 8.0 c | 12.5 a |
| Portageville, MO .. | 1.11 b | .49 c | 68.3 e | 7.6 c | 11.6 b |
| Rohwer, AR | 1.11 b | .53 b | 71.0 d | 6.5 d | 13.0 a |
| Stoneville, MS | 1.09 c | .51 c | 72.9 c | 8.0 c | 12.8 a |
| Tunica, MS | 1.08 c | .50 c | 75.3 b | 7.6 c | 12.8 a |
| Ridgely, TN | 1.14 a | .54 a | 76.7 a | 8.8 b | 13.1 a |
| Clarkdale, AR | 1.11 b | .50 c | 75.6 b | 11.3 a | 13.1 a |

Table 14.--Delta test: Yield, boll, and spinning data for St. Joseph, La.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Stoneville 213 | 1463 a | 5.83 | 40.8 | 11.3 | 5.60 |
| Coker 310 | 1364 ab | 6.34 | 40.4 | 11.6 | 5.05 |
| Deltapine 55 | 1360 ab | 6.01 | 43.1 | 10.4 | 5.15 |
| Stoneville 256 | 1349 ab | 5.53 | 40.2 | 11.5 | 5.50 |
| Deltapine 16 | 1284 ab | 6.22 | 39.5 | 10.9 | 5.30 |
| Delcot 277 | 1268 ab | 6.57 | 39.8 | 12.4 | 4.60 |
| Stoneville 731N ... | 1264 ab | 5.77 | 40.8 | 11.9 | 5.50 |
| Brycot 4 | 1197 b | 5.76 | 38.5 | 12.2 | 5.10 |
| Acala 1517-70 | 898 c | 6.42 | 37.2 | 13.7 | 4.75 |
| Paymaster 909 | 653 d | 6.69 | 38.3 | 14.1 | 5.50 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Stoneville 213 | 1.13 | 0.53 | 75.4 | 8.3 | 11.6 |
| Coker 310 | 1.24 | .56 | 74.9 | 8.0 | 12.8 |
| Deltapine 55 | 1.15 | .53 | 76.0 | 7.7 | 12.6 |
| Stoneville 256 | 1.14 | .51 | 76.4 | 7.9 | 11.6 |
| Deltapine 16 | 1.20 | .55 | 76.1 | 7.7 | 12.1 |
| Delcot 277 | 1.19 | .56 | 73.9 | 8.5 | 11.9 |
| Stoneville 731N ... | 1.14 | .52 | 76.0 | 7.8 | 11.3 |
| Brycot 4 | 1.14 | .49 | 76.2 | 7.7 | 12.4 |
| Acala 1517-70 | 1.18 | .57 | 74.8 | 8.4 | 16.3 |
| Paymaster 909 | 1.02 | .50 | 73.0 | 8.1 | 12.7 |

Table 15.--Delta test: Yield, boll, and spinning data for Portageville, Mo.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Brycot 4 | 1023 a | 6.45 | 36.3 | 14.0 | 4.40 |
| Stoneville 731N ... | 1015 a | 6.20 | 38.3 | 12.8 | 4.55 |
| Stoneville 213 | 1005 a | 6.10 | 37.1 | 12.2 | 4.65 |
| Delcot 277 | 999 a | 6.15 | 39.7 | 13.3 | 4.00 |
| Stoneville 256 | 972 ab | 5.90 | 38.1 | 12.6 | 4.50 |
| Coker 310 | 962 ab | 6.45 | 39.6 | 12.1 | 4.50 |
| Deltapine 55 | 911 abc | 5.95 | 39.6 | 12.0 | 4.30 |
| Acala 1517-70 | 862 bc | 6.75 | 37.7 | 14.1 | 4.30 |
| Paymaster 909 | 819 cd | 6.60 | 37.9 | 14.0 | 4.50 |
| Deltapine 16 | 753 d | 6.10 | 38.1 | 12.0 | 4.50 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Brycot 4 | 1.09 | 0.44 | 66.2 | 7.1 | 10.5 |
| Stoneville 731N ... | 1.11 | .49 | 70.4 | 7.4 | 10.6 |
| Stoneville 213 | 1.11 | .50 | 66.0 | 7.7 | 10.7 |
| Delcot 277 | 1.16 | .50 | 69.2 | 8.2 | 12.7 |
| Stoneville 256 | 1.10 | .47 | 69.3 | 7.2 | 11.3 |
| Coker 310 | 1.18 | .52 | 68.0 | 7.6 | 12.2 |
| Deltapine 55 | 1.12 | .49 | 68.5 | 7.6 | 11.4 |
| Acala 1517-70 | 1.16 | .51 | 68.5 | 7.9 | 14.3 |
| Paymaster 909 | 1.00 | .47 | 67.3 | 7.6 | 10.9 |
| Deltapine 16 | 1.14 | .50 | 69.8 | 8.2 | 11.6 |

Table 16.--Delta test: Yield, boll, and spinning data for Rohwer, Ark.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Deltapine 55 | 941 a | 5.06 | 40.3 | --- | 4.70 |
| Brycot 4 | 841 ab | 4.89 | 39.3 | --- | 5.20 |
| Stoneville 256 | 826 ab | 4.92 | 38.6 | --- | 5.25 |
| Deltapine 16 | 816 ab | 5.21 | 37.8 | --- | 5.00 |
| Stoneville 213 | 783 ab | 5.17 | 36.7 | --- | 5.25 |
| Stoneville 731N ... | 766 b | 5.25 | 40.3 | --- | 5.20 |
| Delcot 277 | 763 b | 5.08 | 39.7 | --- | 5.10 |
| Coker 310 | 754 b | 5.39 | 39.4 | --- | 4.90 |
| Acala 1517-70 | 670 b | 5.91 | 36.4 | --- | 4.90 |
| Paymaster 909 | 454 c | 6.37 | 36.9 | --- | 4.95 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Deltapine 55 | 1.12 | 0.53 | 69.5 | 6.0 | 13.2 |
| Brycot 4 | 1.12 | .52 | 71.1 | 6.3 | 13.1 |
| Stoneville 256 | 1.11 | .51 | 71.3 | 6.3 | 12.1 |
| Deltapine 16 | 1.12 | .52 | 69.9 | 6.4 | 12.8 |
| Stoneville 213 | 1.14 | .55 | 71.7 | 6.6 | 12.4 |
| Stoneville 731N ... | 1.12 | .52 | 71.7 | 6.1 | 12.2 |
| Delcot 277 | 1.09 | .50 | 72.5 | 6.5 | 11.9 |
| Coker 310 | 1.18 | .57 | 71.4 | 6.8 | 13.1 |
| Acala 1517-70 | 1.14 | .55 | 71.4 | 7.2 | 16.2 |
| Paymaster 909 | 1.00 | .50 | 69.8 | 6.7 | 13.5 |

Table 17.--Delta test: Yield, boll, and spinning data for Stoneville, Miss.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|------------------------------|
| Stoneville 213 | 634 a | 4.81 | 47.9 | 9.3 | 4.70 |
| Deltapine 16 | 630 a | 5.89 | 36.8 | 10.9 | 4.65 |
| Stoneville 256 | 629 a | 4.90 | 38.3 | 9.5 | 4.65 |
| Deltapine 55 | 629 a | 4.80 | 39.5 | 9.0 | 4.40 |
| Stoneville 731N ... | 611 a | 4.75 | 38.6 | 9.9 | 4.55 |
| Coker 310 | 567 ab | 5.49 | 36.8 | 10.7 | 4.45 |
| Brycot 4 | 543 b | 4.78 | 38.3 | 9.4 | 4.60 |
| Acala 1517-70 | 521 b | 5.47 | 35.5 | 11.7 | 4.60 |
| Delcot 277 | 517 b | 5.76 | 36.7 | 11.3 | 4.15 |
| Paymaster 909 | 413 c | 5.74 | 36.3 | 12.3 | 4.70 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R _d | Hunter's b value | |
| Stoneville 213 | 1.08 | 0.50 | 73.1 | 8.2 | 10.6 |
| Deltapine 16 | 1.12 | .55 | 74.1 | 7.8 | 13.2 |
| Stoneville 256 | 1.10 | .49 | 73.4 | 8.0 | 12.1 |
| Deltapine 55 | 1.10 | .53 | 72.7 | 7.7 | 12.1 |
| Stoneville 731N ... | 1.11 | .52 | 72.8 | 7.7 | 14.0 |
| Coker 310 | 1.15 | .52 | 73.0 | 8.1 | 14.0 |
| Brycot 4 | 1.07 | .49 | 72.6 | 7.6 | 12.2 |
| Acala 1517-70 | 1.09 | .50 | 73.4 | 7.5 | 12.9 |
| Delcot 277 | 1.15 | .54 | 72.5 | 9.4 | 14.0 |
| Paymaster 909 | .94 | .46 | 71.4 | 8.2 | 13.1 |

Table 18.--Delta test: Yield, boll, and spinning data for Ridgely, Tenn.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|------------------------------|
| Coker 310 | 554 a | 5.69 | 37.1 | 11.9 | 4.45 |
| Delcot 277 | 532 a | 6.15 | 36.0 | 13.2 | 4.05 |
| Stoneville 731N ... | 532 a | 5.36 | 39.4 | 11.8 | 5.10 |
| Brycot 4 | 529 a | 5.67 | 36.9 | 12.1 | 4.95 |
| Stoneville 256 | 517 a | 5.34 | 33.2 | 11.9 | 5.15 |
| Stoneville 213 | 498 a | 5.26 | 37.8 | 11.8 | 5.10 |
| Deltapine 16 | 485 a | 5.56 | 36.6 | 12.0 | 4.95 |
| Deltapine 55 | 478 a | 5.49 | 39.0 | 11.3 | 4.60 |
| Paymaster 909 | 400 b | 6.57 | 37.1 | 14.5 | 4.80 |
| Acala 1517-70 | 387 b | 5.95 | 34.7 | 13.5 | 4.55 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R _d | Hunter's b value | Yarn tenacity (cN/tex) |
| | | | | | |
| Coker 310 | 1.23 | 0.57 | 75.0 | 7.9 | 13.3 |
| Delcot 277 | 1.19 | .55 | 75.4 | 10.3 | 14.1 |
| Stoneville 731N ... | 1.13 | .53 | 77.6 | 8.1 | 12.0 |
| Brycot 4 | 1.13 | .52 | 77.1 | 8.1 | 12.9 |
| Stoneville 256 | 1.13 | .52 | 78.0 | 8.7 | 12.3 |
| Stoneville 213 | 1.14 | .54 | 75.9 | 9.0 | 12.8 |
| Deltapine 16 | 1.13 | .53 | 77.8 | 8.5 | 12.8 |
| Deltapine 55 | 1.17 | .55 | 77.2 | 8.5 | 13.6 |
| Paymaster 909 | 1.03 | .53 | 75.8 | 9.2 | 12.5 |
| Acala 1517-70 | 1.17 | .55 | 77.7 | 9.7 | 15.1 |

Table 19.--Delta test: Yield, boll, and spinning data for Tunica, Miss.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|------------------------------|
| Deltapine 55 | 519 a | 5.05 | 40.9 | 9.1 | 4.95 |
| Stoneville 213 | 514 ab | 4.94 | 39.0 | 9.8 | 4.90 |
| Coker 310 | 507 ab | 5.40 | 39.8 | 10.8 | 4.75 |
| Stoneville 731N ... | 503 ab | 4.56 | 40.5 | 9.1 | 4.80 |
| Deltapine 16 | 478 ab | 5.15 | 38.6 | 10.3 | 4.55 |
| Stoneville 256 | 423 abc | 4.86 | 38.7 | 9.9 | 4.80 |
| Delcot 277 | 416 abc | 5.44 | 38.4 | 11.5 | 4.45 |
| Brycot 4 | 407 bc | 5.05 | 37.9 | 10.0 | 4.80 |
| Acala 1517-70 | 366 c | 5.76 | 36.6 | 13.0 | 4.95 |
| Paymaster 909 | 268 d | 5.64 | 36.7 | 13.8 | 5.50 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R _d | Hunter's b value | |
| Deltapine 55 | 1.09 | 0.51 | 75.2 | 7.6 | 12.8 |
| Stoneville 213 | 1.07 | .50 | 76.1 | 7.9 | 12.0 |
| Coker 310 | 1.15 | .54 | 74.8 | 7.5 | 13.8 |
| Stoneville 731N ... | 1.05 | .47 | 76.5 | 7.1 | 9.8 |
| Deltapine 16 | 1.10 | .50 | 76.3 | 7.4 | 13.3 |
| Stoneville 256 | 1.08 | .49 | 74.9 | 7.2 | 12.0 |
| Delcot 277 | 1.12 | .52 | 75.1 | 8.1 | 12.7 |
| Brycot 4 | 1.09 | .49 | 75.5 | 7.4 | 12.2 |
| Acala 1517-70 | 1.13 | .55 | 75.5 | 8.4 | 16.5 |
| Paymaster 909 | .97 | .49 | 73.6 | 7.8 | 13.6 |

Table 20.--Delta test: Yield, boll, and spinning data for Clarendale, Ark.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading | |
|---------------------|-------------------------|-----------------------|-----------------|---------------|----------------------------|------------------------------|
| Acala 1517-70 | --- | 6.58 | 35.4 | --- | 4.35 | |
| Delcot 277 | --- | 5.94 | 36.1 | --- | 4.00 | |
| Paymaster 909 | --- | 5.71 | 36.1 | --- | 3.75 | |
| Deltapine 16 | --- | 5.20 | 37.6 | --- | 3.85 | |
| Coker 310 | --- | 5.12 | 36.3 | --- | 4.00 | |
| Brycot 4 | --- | 4.98 | 36.9 | --- | 4.05 | |
| Deltapine 55 | --- | 4.92 | 36.9 | --- | 3.50 | |
| Stoneville 256 | --- | 4.78 | 36.4 | --- | 3.70 | |
| Stoneville 213 | --- | 4.62 | 34.8 | --- | 3.65 | |
| Stoneville 731N ... | --- | 4.39 | 36.9 | --- | 3.60 | |
| | | Span length (inches) | Colorimeter | | | |
| | | 2.5% | 50% | \bar{R}_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Acala 1517-70 | 1.15 | 0.56 | 70.9 | 8.4 | 16.0 | |
| Delcot 277 | 1.16 | .53 | 74.7 | 14.3 | 13.4 | |
| Paymaster 909 | .99 | .49 | 74.9 | 7.7 | 13.2 | |
| Deltapine 16 | 1.10 | .50 | 77.8 | 7.9 | 13.1 | |
| Coker 310 | 1.14 | .52 | 75.3 | 8.1 | 12.3 | |
| Brycot 4 | 1.08 | .48 | 75.3 | 17.8 | 12.4 | |
| Deltapine 55 | 1.15 | .49 | 78.3 | 18.0 | 13.4 | |
| Stoneville 256 | 1.11 | .49 | 76.8 | 14.1 | 12.4 | |
| Stoneville 213 | 1.11 | .50 | 76.3 | 9.2 | 12.6 | |
| Stoneville 731N ... | 1.11 | .49 | 76.5 | 7.8 | 12.5 | |

CENTRAL REGIONAL COTTON VARIETY TEST

Table 21.--Central test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|------------------------------|
| Stoneville 213 | 898 a | 5.53 d | 39.5 a | 10.1 e | 5.60 a |
| Deltapine 16 | 846 ab | 5.75 bcd | 39.8 a | 10.2 e | 5.26 c |
| Stoneville 7A | 826 ab | 5.59 cd | 38.1 a | 10.3 d | 5.43 b |
| Coker 310 | 817 abc | 5.89 bcd | 39.3 a | 10.5 de | 5.00 d |
| Tamcot Sp 37 | 809 abc | 6.00 bc | 39.1 a | 11.0 cd | 4.56 e |
| Quapaw | 741 abc | 6.47 a | 36.1 c | 11.9 b | 5.40 b |
| Acala 1517-70 | 654 bc | 6.05 b | 37.0 bc | 11.4 bc | 4.58 e |
| Paymaster 909 | 593 c | 6.72 a | 37.7 b | 12.5 a | 5.45 b |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R _d | Hunter's b value | Yarn tenacity (cN/tex) |
| Stoneville 213 | 1.07 b | 0.52 ab | 71.5 bc | 8.8 a | 11.7 de |
| Deltapine 16 | 1.07 b | .51 bc | 74.3 a | 8.0 b | 12.0 cde |
| Stoneville 7A | 1.08 b | .50 bcd | 72.4 b | 8.0 b | 12.4 cd |
| Coker 310 | 1.12 a | .54 a | 71.2 bc | 8.7 a | 13.3 b |
| Tamcot Sp 37 | 1.06 b | .50 bcd | 74.3 a | 7.5 b | 11.4 e |
| Quapaw | 1.01 c | .50 bcd | 72.3 b | 8.8 a | 12.5 c |
| Acala 1517-70 | 1.12 a | .54 a | 71.4 bc | 8.1 b | 15.8 a |
| Paymaster 909 | .96 d | .48 d | 70.7 c | 8.7 a | 11.4 e |

Table 22.--Central test: Yield, boll, and spinning data by test location*

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Bossier City, LA .. | 900 a | 6.09 b | 40.7 a | 11.1 a | 5.48 a |
| Nueces County, TX . | 837 a | 5.59 c | 38.2 b | 10.5 ab | 4.86 c |
| College Station, TX | 725 b | 6.62 a | 37.1 c | 10.9 ab | 5.14 b |
| Weslaco, TX | 629 c | 5.70 c | 37.8 b | 11.3 a | --- |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Bossier City, LA .. | 1.04 c | 0.50 b | 74.9 a | 8.7 a | 12.6 a |
| Nueces County, TX . | 1.08 a | .53 a | 71.2 b | 8.2 b | 13.0 a |
| College Station, TX | 1.06 b | .50 b | 70.6 b | 8.0 b | 12.0 b |

*No spinning data for Weslaco, Tex.

Table 23.--Central test: Yield, boll, and spinning data for Bossier City, La.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Stoneville 213 | 1117 a | 5.70 | 42.3 | 10.5 | 5.75 |
| Coker 310 | 1016 ab | 5.82 | 42.5 | 10.4 | 5.45 |
| Stoneville 7A | 981 ab | 5.85 | 41.5 | 10.4 | 5.70 |
| Deltapine 16 | 959 ab | 6.18 | 42.4 | 10.1 | 5.60 |
| Acala 1517-70 | 927 ab | 6.53 | 37.9 | 12.1 | 4.95 |
| Quapaw | 814 bc | 6.43 | 37.7 | 12.0 | 5.45 |
| Tamcot Sp 37 | 767 bc | 5.71 | 40.9 | 10.7 | 5.00 |
| Paymaster 909 | 618 c | 6.54 | 40.2 | 12.8 | 5.95 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Stoneville 213 | 1.07 | 0.53 | 74.1 | 9.0 | 12.5 |
| Coker 310 | 1.10 | .52 | 74.0 | 9.0 | 13.4 |
| Stoneville 7A | 1.07 | .48 | 75.2 | 8.2 | 12.2 |
| Deltapine 16 | 1.05 | .51 | 75.8 | 8.3 | 12.0 |
| Acala 1517-70 | 1.12 | .55 | 75.2 | 8.4 | 15.8 |
| Quapaw | 1.02 | .50 | 75.4 | 9.4 | 12.5 |
| Tamcot Sp 37 | 1.02 | .48 | 76.0 | 7.5 | 11.5 |
| Paymaster 909 | .93 | .47 | 73.3 | 10.0 | 11.5 |

Table 24.--Central test: Yield, boll, and spinning data for Nueces County, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Stoneville 213 | 935 a | 4.98 | 39.9 | 9.6 | 5.35 |
| Deltapine 16 | 932 a | 5.61 | 40.4 | 9.7 | 5.05 |
| Stoneville 7A | 901 a | 5.34 | 39.0 | 10.1 | 5.10 |
| Tamcot Sp 37 | 870 a | 5.38 | 38.6 | 10.0 | 4.30 |
| Coker 310 | 842 ab | 5.76 | 39.2 | 10.1 | 4.80 |
| Quapaw | 811 ab | 5.93 | 35.0 | 11.7 | 5.05 |
| Paymaster 909 | 741 bc | 6.35 | 37.0 | 12.8 | 4.95 |
| Acala 1517-70 | 667 c | 5.37 | 36.8 | 10.5 | 4.30 |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Stoneville 213 | 1.05 | 0.48 | 70.3 | 8.8 | 10.6 |
| Deltapine 16 | 1.07 | .50 | 73.6 | 7.8 | 11.2 |
| Stoneville 7A | 1.07 | .50 | 71.0 | 7.9 | 12.0 |
| Tamcot Sp 37 | 1.04 | .48 | 72.5 | 7.2 | 10.9 |
| Coker 310 | 1.16 | .55 | 70.4 | 9.2 | 12.8 |
| Quapaw | 1.01 | .49 | 70.3 | 7.9 | 12.1 |
| Paymaster 909 | .98 | .48 | 68.5 | 7.9 | 11.2 |
| Acala 1517-70 | 1.11 | .53 | 68.6 | 7.8 | 15.3 |

Table 25.--Central test: Yield, boll, and spinning data for College Station, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Stoneville 213 | 847 a | 6.23 | 37.6 | 9.8 | 5.70 |
| Tamcot Sp 37 | 832 a | 6.75 | 37.8 | 11.3 | 4.40 |
| Coker 310 | 803 a | 6.24 | 38.3 | 10.4 | 4.75 |
| Deltapine 16 | 765 a | 5.63 | 37.5 | 9.7 | 5.15 |
| Stoneville 7A | 748 ab | 6.03 | 37.9 | 10.1 | 5.50 |
| Quapaw | 684 abc | 7.62 | 35.7 | 12.4 | 5.70 |
| Paymaster 909 | 581 bc | 7.68 | 35.8 | 12.4 | 5.45 |
| Acala 1517-70 | 544 c | 6.78 | 36.3 | 11.4 | 4.50 |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | \bar{R}_d | Hunter's <i>b</i> value | |
| Stoneville 213 | 1.10 | 0.56 | 70.1 | 8.6 | 12.0 |
| Tamcot Sp 37 | 1.13 | .54 | 74.3 | 7.7 | 11.9 |
| Coker 310 | 1.12 | .55 | 69.3 | 8.0 | 13.7 |
| Deltapine 16 | 1.08 | .54 | 73.5 | 7.9 | 12.8 |
| Stoneville 7A | 1.12 | .53 | 71.0 | 8.1 | 12.9 |
| Quapaw | 1.02 | .51 | 71.4 | 9.2 | 12.9 |
| Paymaster 909 | .99 | .51 | 70.2 | 8.3 | 11.7 |
| Acala 1517-70 | 1.12 | .53 | 70.4 | 8.0 | 16.4 |

Table 26.--Central test: Yield and boll data for Weslaco, Tex.*

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Tamcot Sp 37 | 766 a | 6.17 | 39.3 | 11.8 | --- |
| Deltapine 16 | 727 ab | 5.60 | 39.1 | 11.4 | --- |
| Stoneville 213 | 691 ab | 5.20 | 38.4 | 10.4 | --- |
| Stoneville 7A | 674 ab | 5.15 | 38.2 | 10.8 | --- |
| Quapaw | 656 ab | 5.91 | 36.0 | 11.4 | --- |
| Coker 310 | 607 b | 5.75 | 37.2 | 11.0 | --- |
| Acala 1517-70 | 479 c | 5.53 | 36.9 | 11.7 | --- |
| Paymaster 909 | 430 c | 6.32 | 37.7 | 12.2 | --- |

*No spinning data available.

PLAINS REGIONAL COTTON VARIETY TEST

Table 27.--Plains test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Tamcot Sp 21 | 467 a | 5.29 def | 37.0 b | 11.1 fg | 4.57 h |
| Tamcot 788 | 456 a | 5.39 def | 35.7 cd | 11.0 fg | 4.19 i |
| Dunn 119 | 431 ab | 6.22 ab | 34.2 fg | 13.7 a | 4.87 def |
| Paymaster 18 | 422 abc | 4.94 g | 34.0 g | 11.2 efg | 5.26 b |
| Deltapine 16 | 421 abc | 4.95 g | 37.0 b | 11.1 efg | 4.92 de |
| Coker 5110 | 402 abc | 5.42 de | 37.1 b | 11.0 g | 4.68 gh |
| Acala 1517-70 | 396 abcd | 5.16 efg | 34.4 fg | 12.7 bc | 4.56 h |
| Paymaster 202 | 389 abcd | 5.88 bc | 36.0 bcd | 12.1 cd | 5.11 bc |
| Lockett BXL | 386 abcd | 5.66 cd | 35.2 def | 11.3 efg | 4.72 fgh |
| Lockett 4789A | 381 abcd | 5.37 def | 35.6 de | 11.5 defg | 4.75 efg |
| Paymaster 909 | 376 abcd | 6.29 a | 36.7 bc | 12.5 bc | 5.44 a |
| Gregg 35W | 376 abcd | 5.28 defg | 35.0 defg | 12.6 bc | 4.57 h |
| Coker 310 | 374 abcd | 5.00 fg | 38.2 a | 11.3 efg | 4.95 de |
| Paymaster 111A | 361 bcd | 6.35 a | 34.6 efg | 12.1 cd | 5.17 bc |
| Stripper Cala S ... | 353 bcd | 5.43 de | 33.9 g | 11.8 def | 4.55 h |
| Westburn 70 | 351 bcd | 5.82 bc | 34.9 defg | 11.8 de | 4.78 efg |
| Lankart 611 | 332 cd | 6.38 a | 36.6 bc | 12.7 bc | 4.70 fgh |
| Lankart LX 571 | 306 a | 6.44 a | 35.8 cd | 12.9 b | 5.00 cd |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|----------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| Tamcot Sp 21 | 1.06 def | 0.49 efg | 73.7 a | 7.8 cde | 11.1 de |
| Tamcot 788 | 1.05 efg | .48 ghi | 71.8 cde | 7.9 abcd | 11.4 d |
| Dunn 119 | 1.09 bc | .51 bc | 71.7 cde | 7.4 f | 11.8 c |
| Paymaster 18 | .96 j | .45 k | 71.3 def | 8.0 abc | 9.1 k |
| Deltapine 16 | 1.10 b | .51 cd | 73.0 ab | 7.7 cdef | 10.9 efg |
| Coker 5110 | 1.09 bc | .50 def | 71.6 cde | 7.6 def | 11.0 def |
| Acala 1517-70 | 1.13 a | .53 ab | 70.9 ef | 7.6 ef | 14.2 a |
| Paymaster 202 | .98 ij | .46 ijk | 71.9 cd | 8.2 ab | 10.7 efg |
| Lockett BXL | 1.09 bcd | .50 cde | 71.4 def | 7.8 cde | 11.1 def |
| Lockett 4789A | 1.04 fg | .48 efg | 71.7 cde | 7.8 cde | 10.7 fgh |
| Paymaster 909 | .96 j | .48 ghi | 70.6 f | 8.2 a | 10.5 gh |
| Gregg 35W | 1.07 cde | .51 bc | 71.6 cde | 7.4 f | 12.8 b |
| Coker 310 | 1.13 a | .53 a | 71.3 def | 8.0 abc | 11.4 d |
| Paymaster 111A | .99 hi | .47 hij | 71.1 def | 7.6 def | 10.5 h |
| Stripper Cala S ... | 1.00 h | .48 ghi | 71.4 def | 7.9 bcde | 11.0 def |
| Westburn 70 | 1.05 efg | .48 fgh | 72.5 bc | 7.8 bcde | 10.0 i |
| Lankart 611 | .97 ij | .46 jk | 71.7 cde | 8.0 abc | 9.4 jk |
| Lankart LX 571 | 1.03 g | .48 fgh | 71.4 def | 7.9 abcd | 9.8 ij |

Table 28.--Plains test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|-----------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Lamesa, TX | 697 a | 6.11 b | 35.1 d | 11.3 c | 4.88 c |
| Chickasha (Irr), OK . | 644 a | 7.66 a | 36.2 c | 14.1 a | 5.11 b |
| Halfway, TX | 529 b | 5.95 bc | 37.0 b | 11.7 b | 4.83 cd |
| Lubbock (Irr), TX ... | 452 b | 5.25 d | 36.0 c | 11.5 bc | 4.53 e |
| Altus, OK | 333 c | 5.80 c | 35.1 d | 13.8 a | 4.74 de |
| Chillicothe (Irr), TX | 317 c | 4.52 e | 37.0 b | 10.6 d | 5.05 b |
| Chillicothe (Dry), TX | 255 c | 5.10 d | 38.4 a | 9.9 e | 5.13 b |
| Mangum, OK | 155 d | 5.88 bc | 33.5 e | 13.9 a | 5.34 a |
| Chickasha (Dry), OK . | 93 d | 4.20 f | 33.1 e | 10.0 e | 3.67 f |

| | Span length (inches) | | Colorimeter | | |
|-----------------------|----------------------|--------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Lamesa, TX | 1.09 c | 0.50 b | 79.0 a | 8.1 d | 10.7 c |
| Chickasha (Irr), OK . | 1.11 b | .54 a | 73.3 d | 7.3 e | 11.5 b |
| Halfway, TX | 1.03 d | .47 c | 77.2 c | 8.9 b | 10.9 c |
| Lubbock (Irr), TX ... | 1.01 e | .47 c | 78.1 b | 9.1 a | 10.9 c |
| Altus, OK | 1.14 a | .55 a | 68.1 g | 6.4 g | 12.6 a |
| Chillicothe (Irr), TX | .98 f | .45 d | 65.2 h | 7.4 e | 10.4 d |
| Chillicothe (Dry), TX | .97 f | .45 d | 65.4 h | 7.1 f | 10.5 d |
| Mangum, OK | 1.13 a | .55 a | 69.8 e | 7.4 e | 12.4 a |
| Chickasha (Dry), OK . | .92 g | .42 e | 69.1 f | 8.6 c | 8.8 e |

Table 29.--Plains test: Combined yield, boll, and spinning data for Lubbock (irrigated and dryland), Lamesa, and Halfway, Tex., by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Acala 1517-70 | 681 a | 5.70 | 35.0 | 12.3 | 4.52 |
| Tamcot Sp 21 | 670 ab | 5.62 | 37.5 | 11.0 | 4.43 |
| Gregg 35W | 658 abc | 5.96 | 34.0 | 12.9 | 4.60 |
| Tamcot 788 | 650 abc | 5.56 | 37.0 | 10.3 | 4.20 |
| Paymaster 909 | 629 abcd | 6.94 | 36.8 | 12.8 | 5.63 |
| Paymaster 18 | 609 abcde | 5.10 | 35.4 | 11.0 | 4.15 |
| Dunn 119 | 589 abcdef | 6.39 | 35.6 | 12.9 | 5.18 |
| Deltapine 16 | 575 abcdefg | 4.92 | 37.0 | 10.2 | 4.68 |
| Coker 5110 | 569 abcdefg | 5.48 | 37.3 | 10.4 | 4.46 |
| Coker 310 | 557 abcdefg | 5.19 | 37.8 | 10.3 | 4.71 |
| Lockett BXL | 551 bcdefg | 5.68 | 35.1 | 11.4 | 4.70 |
| Paymaster 202 | 536 cdefg | 6.06 | 35.9 | 11.5 | 5.01 |
| Westburn 70 | 511 defg | 5.23 | 34.8 | 10.7 | 4.58 |
| Paymaster 111A | 502 defg | 6.43 | 35.2 | 11.9 | 5.90 |
| Lockett 4789A | 490 efgh | 5.43 | 36.1 | 11.1 | 4.66 |
| Lankart 611 | 464 fgh | 6.43 | 37.1 | 12.9 | 4.73 |
| Stripper Cala S ... | 458 gh | 5.55 | 34.8 | 11.1 | 5.05 |
| Lankart LX 571 | 368 h | 6.25 | 35.9 | 12.6 | 4.88 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Acala 1517-70 | 1.14 | 0.53 | 78.0 | 8.8 | 14.3 |
| Tamcot Sp 21 | 1.07 | .49 | 78.6 | 8.3 | 11.9 |
| Gregg 35W | 1.08 | .51 | 78.5 | 8.3 | 13.2 |
| Tamcot 788 | 1.03 | .47 | 77.8 | 9.2 | 10.8 |
| Paymaster 909 | .96 | .47 | 77.0 | 9.2 | 10.6 |
| Paymaster 18 | 1.03 | .46 | 78.0 | 9.3 | 9.4 |
| Dunn 119 | 1.09 | .51 | 77.5 | 8.6 | 11.7 |
| Deltapine 16 | 1.10 | .48 | 79.4 | 8.8 | 10.4 |
| Coker 5110 | 1.08 | .49 | 78.7 | 8.3 | 10.9 |
| Coker 310 | 1.12 | .50 | 77.9 | 9.1 | 11.4 |
| Lockett BXL | 1.10 | .50 | 78.1 | 9.0 | 11.0 |
| Paymaster 202 | 1.03 | .47 | 77.2 | 9.1 | 10.8 |
| Westburn 70 | 1.07 | .48 | 80.1 | 8.0 | 10.3 |
| Paymaster 111A | .92 | .45 | 78.3 | 8.6 | 8.9 |
| Lockett 4789A | 1.04 | .48 | 78.1 | 8.4 | 10.8 |
| Lankart 611 | .96 | .45 | 77.6 | 8.4 | 9.1 |
| Stripper Cala S ... | .94 | .47 | 77.4 | 8.6 | 10.4 |
| Lankart LX 571 | 1.03 | .47 | 78.2 | 8.5 | 9.3 |

Table 30.--Plains test: Combined yield, boll, and spinning data for Chickasha (irrigated and dryland), Altus, and Mangum, Okla., and Chillicothe, Tex. (irrigated and dryland), by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Tamcot Sp 21 | 365 a | 5.13 | 36.8 | 11.1 | 4.64 |
| Tamcot 788 | 359 a | 5.31 | 35.1 | 11.4 | 4.19 |
| Deltapine 16 | 344 ab | 4.96 | 37.0 | 11.5 | 5.05 |
| Paymaster 18 | 328 abc | 4.87 | 33.3 | 11.3 | 5.81 |
| Lockett 4789A | 327 abc | 5.34 | 35.3 | 11.6 | 4.80 |
| Coker 5110 | 319 abcd | 5.39 | 37.0 | 11.2 | 4.79 |
| Paymaster 202 | 316 abcd | 5.78 | 36.0 | 12.5 | 5.16 |
| Dunn 119 | 313 abcd | 6.09 | 33.2 | 14.3 | 4.71 |
| Lockett BXL | 304 abcde | 5.65 | 35.2 | 11.3 | 4.73 |
| Stripper Cala S ... | 300 abcde | 5.37 | 33.5 | 12.1 | 4.30 |
| Paymaster 111A | 291 bcde | 6.30 | 34.3 | 12.2 | 4.80 |
| Coker 310 | 283 bcde | 4.90 | 38.3 | 11.8 | 5.04 |
| Lankart LX 571 | 275 bcde | 6.54 | 35.7 | 13.1 | 5.05 |
| Westburn 70 | 271 cde | 6.12 | 35.0 | 12.4 | 4.88 |
| Lankart 611 | 266 cde | 6.35 | 36.4 | 12.7 | 4.69 |
| Acala 1517-70 | 254 de | 4.89 | 34.1 | 12.8 | 4.58 |
| Paymaster 909 | 250 de | 5.97 | 36.6 | 12.4 | 5.35 |
| Gregg 35W | 235 e | 4.93 | 35.5 | 12.5 | 4.56 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| Tamcot Sp 21 | 1.06 | 0.49 | 71.3 | 7.5 | 10.8 |
| Tamcot 788 | 1.06 | .48 | 68.9 | 7.3 | 11.7 |
| Deltapine 16 | 1.10 | .52 | 69.8 | 7.1 | 11.2 |
| Paymaster 18 | .92 | .45 | 68.0 | 7.3 | 9.0 |
| Lockett 4789A | 1.04 | .50 | 68.5 | 7.5 | 10.7 |
| Coker 5110 | 1.09 | .50 | 68.1 | 7.2 | 11.1 |
| Paymaster 202 | .95 | .46 | 69.3 | 7.7 | 10.7 |
| Dunn 119 | 1.09 | .51 | 68.8 | 6.8 | 11.3 |
| Stripper Cala S ... | 1.03 | .48 | 68.4 | 7.5 | 11.3 |
| Lockett BXL | 1.07 | .50 | 68.1 | 7.3 | 11.1 |
| Paymaster 111A | 1.02 | .48 | 67.5 | 7.1 | 11.3 |
| Coker 310 | 1.13 | .54 | 68.0 | 7.4 | 11.4 |
| Lankart LX 571 | 1.03 | .49 | 68.1 | 7.6 | 10.0 |
| Westburn 70 | 1.05 | .48 | 68.7 | 7.8 | 9.9 |
| Lankart 611 | .98 | .47 | 68.8 | 7.8 | 9.6 |
| Acala 1517-70 | 1.13 | .54 | 67.4 | 7.0 | 14.2 |
| Paymaster 909 | .95 | .48 | 67.4 | 7.8 | 10.5 |
| Gregg 35W | 1.07 | .52 | 68.2 | 6.9 | 12.5 |

Table 31.--Plains test: Yield, boll, and spinning data for Lamesa, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Tamcot Sp 21 | 862 a | 5.72 | 37.0 | 10.2 | 4.45 |
| Gregg 35W | 801 ab | 6.08 | 33.5 | 12.3 | 4.70 |
| Paymaster 909 | 792 abc | 7.71 | 34.8 | 13.0 | 5.60 |
| Coker 5110 | 766 abcd | 5.84 | 36.1 | 10.1 | 4.55 |
| Acala 1517-70 | 745 abcde | 6.33 | 34.3 | 12.1 | 4.65 |
| Tamcot 788 | 734 bcdef | 5.66 | 36.0 | 9.9 | 4.35 |
| Lockett BXL | 710 bcdef | 5.85 | 34.4 | 10.7 | 4.65 |
| Lockett 4789A | 710 bedef | 5.85 | 35.2 | 11.1 | 4.85 |
| Paymaster 202 | 691 bcdef | 6.80 | 35.6 | 11.5 | 5.05 |
| Paymaster 18 | 690 bcdef | 5.74 | 34.5 | 11.1 | 4.20 |
| Lankart 611 | 680 bcdef | 6.84 | 36.3 | 13.2 | 5.00 |
| Coker 310 | 674 bcdef | 5.48 | 36.4 | 10.2 | 4.85 |
| Paymaster 111A | 667 cdef | 6.29 | 34.4 | 11.6 | 6.20 |
| Stripper Cala S ... | 658 def | 5.89 | 35.2 | 10.7 | 5.10 |
| Deltapine 16 | 642 def | 5.33 | 35.1 | 10.2 | 4.95 |
| Westburn 70 | 636 ef | 5.45 | 34.3 | 10.4 | 4.60 |
| Dunn 119 | 604 f | 6.50 | 32.4 | 12.3 | 5.00 |
| Lankart LX 571 | 480 g | 6.77 | 34.9 | 12.7 | 5.10 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| Tamcot Sp 21 | 1.12 | 0.51 | 80.1 | 7.8 | 12.1 |
| Gregg 35W | 1.11 | .52 | 79.2 | 8.2 | 13.0 |
| Paymaster 909 | 1.01 | .50 | 78.2 | 8.3 | 10.5 |
| Coker 5110 | 1.11 | .51 | 79.6 | 8.0 | 10.8 |
| Acala 1517-70 | 1.17 | .55 | 79.0 | 8.5 | 13.9 |
| Tamcot 788 | 1.08 | .49 | 78.2 | 8.3 | 10.5 |
| Lockett BXL | 1.17 | .53 | 79.1 | 8.0 | 11.2 |
| Lockett 4789A | 1.08 | .49 | 78.5 | 8.0 | 10.6 |
| Paymaster 202 | 1.08 | .49 | 77.4 | 9.0 | 10.8 |
| Paymaster 18 | 1.08 | .47 | 79.8 | 8.3 | 9.2 |
| Lankart 611 | 1.00 | .47 | 77.6 | 8.2 | 8.6 |
| Coker 310 | 1.19 | .53 | 78.8 | 8.2 | 11.3 |
| Paymaster 111A | .94 | .46 | 78.5 | 7.9 | 8.6 |
| Stripper Cala S ... | 1.01 | .50 | 79.1 | 7.9 | 10.7 |
| Deltapine 16 | 1.15 | .51 | 80.6 | 8.2 | 10.3 |
| Westburn 70 | 1.12 | .51 | 81.3 | 7.6 | 10.2 |
| Dunn 119 | 1.14 | .55 | 77.8 | 7.9 | 12.0 |
| Lankart LX 571 | 1.08 | .50 | 79.6 | 8.0 | 9.3 |

Table 32.--Plains test: Yield, boll, and spinning data for Chickasha, Okla. (irrigated)

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|---------------|------------------------------|
| Stripper Cala S ... | 839 a | 7.24 | 33.9 | 14.5 | 4.45 |
| Tamcot Sp 21 | 827 a | 7.04 | 38.7 | 13.0 | 4.90 |
| Deltapine 16 | 768 ab | 6.66 | 39.0 | 13.0 | 5.05 |
| Coker 5110 | 755 abc | 7.86 | 38.3 | 13.5 | 5.00 |
| Tamcot 788 | 705 bcde | 6.84 | 35.4 | 13.5 | 4.60 |
| Paymaster 202 | 669 bcd | 6.86 | 36.1 | 14.5 | 5.75 |
| Lockett 4789A | 662 bcde | 7.20 | 36.2 | 13.5 | 5.15 |
| Lankart LX 571 | 641 cdef | 9.26 | 35.5 | 15.0 | 5.55 |
| Paymaster 111A | 636 def | 9.06 | 35.3 | 14.0 | 5.05 |
| Paymaster 18 | 616 def | 6.26 | 34.0 | 13.0 | 6.00 |
| Dunn 119 | 608 def | 8.06 | 34.8 | 15.0 | 5.30 |
| Lankart 611 | 604 def | 9.14 | 36.3 | 16.0 | 5.30 |
| Lockett BXL | 586 ef | 8.08 | 35.8 | 12.0 | 4.90 |
| Westburn 70 | 573 ef | 8.64 | 35.5 | 15.5 | 5.45 |
| Paymaster 909 | 559 ef | 8.28 | 37.1 | 15.0 | 4.95 |
| Acala 1517-70 | 559 ef | 7.04 | 36.9 | 15.0 | 4.90 |
| Coker 310 | 547 f | 6.40 | 37.8 | 14.5 | 5.30 |
| Gregg 35W | 431 g | 7.06 | 35.4 | 15.0 | 4.55 |
| Span length (inches) | | Colorimeter | | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | - | Hunter's <i>b</i> value |
| Stripper Cala S ... | 1.13 | 0.55 | 72.6 | 7.3 | 12.2 |
| Tamcot Sp 21 | 1.09 | .53 | 75.7 | 7.5 | 10.9 |
| Deltapine 16 | 1.19 | .57 | 75.5 | 7.3 | 11.2 |
| Coker 5110 | 1.18 | .58 | 73.5 | 7.2 | 11.7 |
| Tamcot 788 | 1.16 | .56 | 74.7 | 7.2 | 13.0 |
| Paymaster 202 | 1.01 | .51 | 74.8 | 7.7 | 10.3 |
| Lockett 4789A | 1.10 | .55 | 72.9 | 7.1 | 11.6 |
| Lankart LX 571 | 1.14 | .56 | 74.0 | 7.6 | 10.3 |
| Paymaster 111A | 1.07 | .52 | 72.5 | 6.8 | 11.8 |
| Paymaster 18 | .96 | .49 | 71.8 | 6.9 | 9.4 |
| Dunn 119 | 1.17 | .59 | 71.7 | 6.9 | 13.0 |
| Lankart 611 | 1.06 | .52 | 73.9 | 8.3 | 9.6 |
| Lockett BXL | 1.12 | .55 | 74.0 | 7.3 | 11.6 |
| Westburn 70 | 1.13 | .54 | 73.8 | 7.3 | 10.8 |
| Paymaster 909 | 1.02 | .53 | 72.9 | 7.5 | 11.0 |
| Acala 1517-70 | 1.16 | .56 | 70.8 | 7.6 | 14.2 |
| Coker 310 | 1.18 | .56 | 72.3 | 7.6 | 11.6 |
| Gregg 34W | 1.12 | .57 | 73.2 | 7.3 | 12.9 |

Table 33.--Plains test: Yield, boll, and spinning data for Chickasha, Okla. (dryland)

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Deltapine 16 | 125 a | 3.54 | 34.6 | 10.0 | 4.10 |
| Lockett 4789A | 119 a | 4.18 | 32.5 | 10.0 | 3.70 |
| Paymaster 18 | 116 a | 4.06 | 33.0 | 10.5 | 4.55 |
| Lockett BXL | 114 a | 4.16 | 33.2 | 10.0 | 3.55 |
| Dunn 119 | 110 ab | 4.32 | 35.5 | 10.0 | 3.45 |
| Paymaster 111A | 96 bc | 4.82 | 31.1 | 10.5 | 3.65 |
| Tamcot Sp 21 | 96 bc | 4.24 | 34.4 | 10.5 | 4.10 |
| Lankart LX 571 | 91 bc | 4.96 | 31.1 | 11.5 | 3.65 |
| Coker 5110 | 91 bc | 4.20 | 34.3 | 9.0 | 3.70 |
| Tamcot 788 | 88 cd | 3.76 | 29.6 | 10.0 | 3.15 |
| Lankart 611 | 88 cd | 4.96 | 34.1 | 11.0 | 3.50 |
| Coker 310 | 85 cd | 3.40 | 36.4 | 10.0 | 3.80 |
| Paymaster 202 | 85 cd | 4.44 | 33.7 | 10.0 | 3.80 |
| Paymaster 909 | 84 cd | 4.58 | 31.5 | 9.5 | 4.15 |
| Gregg 35W | 79 cd | 3.70 | 33.5 | 9.2 | 3.25 |
| Westburn 70 | 77 de | 4.36 | 31.2 | 10.5 | 3.75 |
| Stripper Cala S ... | 68 de | 4.28 | 32.6 | 10.5 | 3.00 |
| Acala 1517-70 | 57 e | 3.56 | 35.1 | 9.0 | 3.30 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Deltapine 16 | .92 | 0.42 | 69.9 | 8.5 | 9.0 |
| Lockett 4789A | .92 | .44 | 69.6 | 8.3 | 9.2 |
| Paymaster 18 | .86 | .41 | 69.1 | 8.2 | 7.3 |
| Lockett BXL | .94 | .43 | 68.3 | 9.2 | 9.0 |
| Dunn 119 | .96 | .42 | 70.2 | 8.2 | 8.9 |
| Paymaster 111A | .88 | .40 | 68.2 | 8.2 | 9.0 |
| Tamcot Sp 21 | 1.01 | .44 | 70.9 | 9.0 | 9.3 |
| Lankart LX 571 | .91 | .42 | 68.2 | 8.5 | 8.7 |
| Coker 5110 | .95 | .43 | 70.0 | 8.5 | 9.7 |
| Tamcot 788 | .94 | .40 | 69.3 | 8.3 | 8.1 |
| Lankart 611 | .88 | .42 | 69.1 | 8.6 | 7.7 |
| Coker 310 | .98 | .44 | 67.9 | 8.5 | 9.2 |
| Paymaster 202 | .85 | .40 | 69.6 | 8.7 | 8.1 |
| Paymaster 909 | .83 | .39 | 68.1 | 8.7 | 8.2 |
| Gregg 35W | .93 | .44 | 69.4 | 8.1 | 9.8 |
| Westburn 70 | .93 | .41 | 68.5 | 10.2 | 8.3 |
| Stripper Cala S ... | .96 | .43 | 69.6 | 8.7 | 9.3 |
| Acala 1517-70 | .95 | .44 | 68.7 | 8.6 | 10.0 |

Table 34.--Plains test: Yield, boll, and spinning data for Halfway, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Acala 1517-70 | 729 a | 5.67 | 35.4 | 13.0 | 4.65 |
| Dunn 119 | 661 ab | 6.89 | 38.1 | 13.2 | 5.55 |
| Deltapine 16 | 658 ab | 5.04 | 38.8 | 10.5 | 4.80 |
| Tamcot 788 | 617 abc | 6.05 | 37.5 | 10.4 | 4.25 |
| Tamcot Sp 21 | 609 abc | 5.84 | 37.9 | 11.3 | 4.45 |
| Paymaster 18 | 596 abcd | 5.01 | 36.5 | 10.9 | 4.10 |
| Gregg 35W | 582 abcd | 6.11 | 34.6 | 13.2 | 4.40 |
| Coker 310 | 563 abcde | 5.19 | 38.2 | 10.6 | 4.65 |
| Lockett BXL | 561 abcdef | 6.11 | 36.3 | 11.8 | 5.05 |
| Coker 5110 | 529 bcdefg | 5.61 | 38.2 | 10.9 | 4.65 |
| Paymaster 909 | 506 bcdefg | 7.24 | 37.7 | 13.6 | 5.80 |
| Lockett 4789A | 470 cdefg | 5.48 | 38.3 | 11.0 | 4.60 |
| Paymaster 111A | 463 cdefg | 7.07 | 36.2 | 12.4 | 5.75 |
| Westburn 70 | 460 cdefg | 5.30 | 34.9 | 10.9 | 4.40 |
| Paymaster 202 | 410 defg | 5.73 | 36.7 | 11.4 | 5.20 |
| Lankart 611 | 379 efg | 6.60 | 37.6 | 12.8 | 4.45 |
| Stripper Cala S ... | 376 fg | 5.62 | 35.5 | 10.9 | 5.20 |
| Lankart LX 571 | 351 g | 6.65 | 37.3 | 13.1 | 5.05 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Acala 1517-70 | 1.13 | 0.51 | 77.2 | 8.5 | 13.6 |
| Dunn 119 | 1.08 | .50 | 76.5 | 9.6 | 11.4 |
| Deltapine 16 | 1.08 | .47 | 77.1 | 9.0 | 10.1 |
| Tamcot 788 | 1.01 | .45 | 77.2 | 9.2 | 11.2 |
| Tamcot Sp 21 | 1.06 | .49 | 77.0 | 8.7 | 12.0 |
| Paymaster 18 | 1.03 | .46 | 76.6 | 10.0 | 10.0 |
| Gregg 35W | 1.07 | .49 | 78.1 | 8.1 | 13.2 |
| Coker 310 | 1.11 | .50 | 77.6 | 10.1 | 11.4 |
| Lockett BXL | 1.08 | .48 | 77.3 | 8.7 | 10.7 |
| Coker 5110 | 1.06 | .48 | 77.9 | 8.4 | 11.1 |
| Paymaster 909 | .95 | .47 | 76.0 | 9.6 | 11.1 |
| Lockett 4789A | 1.03 | .47 | 78.3 | 8.6 | 10.8 |
| Paymaster 111A | .91 | .45 | 78.6 | 8.2 | 9.2 |
| Westburn 70 | 1.06 | .47 | 78.3 | 8.4 | 10.7 |
| Paymaster 202 | 1.02 | .47 | 76.9 | 8.4 | 10.6 |
| Lankart 611 | .95 | .44 | 77.5 | 8.6 | 9.8 |
| Stripper Cala S ... | .91 | .45 | 75.3 | 8.5 | 10.5 |
| Lankart LX 571 | 1.03 | .47 | 77.0 | 9.3 | 9.5 |

Table 35.--Plains test: Yield, boll, and spinning data for Lubbock, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Tamcot 788 | 599 a | 4.98 | 37.4 | 10.5 | 4.00 |
| Gregg 35W | 590 a | 4.71 | 34.0 | 13.2 | 4.65 |
| Paymaster 909 | 589 a | 5.88 | 37.0 | 11.9 | 5.50 |
| Acala 1517-70 | 570 ab | 5.10 | 35.4 | 12.0 | 4.30 |
| Paymaster 18 | 541 abc | 4.56 | 35.2 | 11.0 | 4.15 |
| Tamcot Sp 21 | 540 abc | 5.32 | 37.4 | 11.5 | 4.40 |
| Paymaster 202 | 507 bc | 5.66 | 35.3 | 11.6 | 4.80 |
| Dunn 119 | 501 c | 5.79 | 36.4 | 13.2 | 5.00 |
| Westburn 70 | 436 d | 4.94 | 35.2 | 10.8 | 4.75 |
| Coker 310 | 435 d | 4.91 | 38.8 | 10.2 | 4.65 |
| Deltapine 16 | 424 d | 4.39 | 37.1 | 10.1 | 4.30 |
| Coker 5110 | 411 d | 5.00 | 37.6 | 10.3 | 4.20 |
| Lockett BXL | 381 de | 5.09 | 34.7 | 11.6 | 4.40 |
| Paymaster 111A | 377 de | 5.94 | 35.1 | 11.8 | 5.75 |
| Stripper Cala S ... | 341 ef | 5.16 | 33.7 | 11.7 | 4.85 |
| Lankart 611 | 332 efg | 5.87 | 37.4 | 12.7 | 4.75 |
| Lockett 4789A | 291 fg | 4.98 | 35.0 | 11.3 | 4.55 |
| Lankart LX 571 | 273 g | 5.33 | 35.6 | 11.9 | 4.50 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Tamcot 788 | 1.00 | 0.46 | 77.9 | 10.2 | 10.7 |
| Gregg 35W | 1.05 | .51 | 78.2 | 8.6 | 13.5 |
| Paymaster 909 | .93 | .45 | 77.0 | 9.6 | 10.3 |
| Acala 1517-70 | 1.12 | .52 | 77.6 | 9.3 | 15.1 |
| Paymaster 18 | .99 | .44 | 77.5 | 9.6 | 9.1 |
| Tamcot Sp 21 | 1.03 | .47 | 78.9 | 8.5 | 11.7 |
| Paymaster 202 | 1.00 | .47 | 77.4 | 10.0 | 11.0 |
| Dunn 119 | 1.05 | .50 | 78.2 | 8.5 | 11.8 |
| Westburn 70 | 1.03 | .47 | 80.7 | 7.9 | 10.0 |
| Coker 310 | 1.06 | .48 | 77.4 | 9.1 | 11.4 |
| Deltapine 16 | 1.07 | .47 | 80.5 | 9.2 | 10.8 |
| Coker 5110 | 1.06 | .48 | 78.6 | 9.6 | 11.0 |
| Lockett BXL | 1.07 | .48 | 78.0 | 10.2 | 11.1 |
| Paymaster 111A | .90 | .44 | 77.8 | 9.6 | 9.0 |
| Stripper Cala S ... | .91 | .45 | 77.7 | 9.3 | 10.0 |
| Lankart 611 | .93 | .43 | 77.6 | 8.5 | 9.0 |
| Lockett 4789A | 1.03 | .48 | 77.5 | 8.5 | 11.0 |
| Lankart LX 571 | 1.00 | .45 | 77.9 | 8.4 | 9.3 |

Table 36.--Plains test: Yield, boll, and spinning data for Altus, Okla.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Tamcot 788 | 540 a | 5.76 | 38.1 | 13.5 | 4.40 |
| Deltapine 16 | 505 a | 5.52 | 36.8 | 13.5 | 4.60 |
| Tamcot Sp 21 | 490 b | 5.38 | 36.8 | 12.5 | 4.50 |
| Paymaster 18 | 407 b | 4.90 | 31.2 | 12.0 | 6.25 |
| Lockett 4789A | 406 b | 5.48 | 36.8 | 13.5 | 4.30 |
| Paymaster 202 | 399 b | 6.56 | 36.8 | 15.5 | 5.50 |
| Dunn 119 | 363 bc | 5.76 | 28.6 | 15.5 | 4.35 |
| Coker 310 | 321 c | 5.38 | 41.2 | 14.0 | 4.90 |
| Acala 1517-70 | 292 c | 5.52 | 30.0 | 15.5 | 4.55 |
| Lankart LX 571 | 279 c | 6.58 | 34.8 | 15.0 | 4.75 |
| Paymaster 909 | 279 c | 6.30 | 36.4 | 15.5 | 5.45 |
| Westburn 70 | 263 c | 6.55 | 37.5 | 13.5 | 4.65 |
| Gregg 35W | 260 c | 6.06 | 35.0 | 13.5 | 4.70 |
| Lockett BXL | 259 c | 5.84 | 35.0 | 12.0 | 4.55 |
| Paymaster 111A | 254 c | 5.98 | 30.4 | 13.5 | 4.45 |
| Coker 5110 | 251 c | 5.60 | 38.9 | 12.5 | 4.55 |
| Stripper Cala S ... | 239 c | 5.00 | 33.3 | 14.0 | 4.60 |
| Lankart 611 | 179 d | 6.38 | 35.3 | 13.5 | 4.30 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Tamcot 788 | 1.18 | 0.55 | 69.8 | 6.0 | 14.0 |
| Deltapine 16 | 1.24 | .56 | 68.8 | 6.3 | 12.1 |
| Tamcot Sp 21 | 1.14 | .54 | 72.8 | 6.6 | 12.2 |
| Paymaster 18 | 1.01 | .50 | 67.2 | 6.6 | 10.9 |
| Lockett 4789A | 1.20 | .58 | 69.1 | 6.6 | 11.8 |
| Paymaster 202 | 1.00 | .50 | 69.5 | 6.5 | 13.0 |
| Dunn 119 | 1.20 | .59 | 66.4 | 5.6 | 14.1 |
| Coker 310 | 1.25 | .62 | 67.7 | 6.8 | 12.6 |
| Acala 1517-70 | 1.26 | .60 | 68.2 | 6.4 | 16.1 |
| Lankart LX 571 | 1.12 | .54 | 67.5 | 6.6 | 11.6 |
| Paymaster 909 | 1.08 | .56 | 67.4 | 6.6 | 12.5 |
| Westburn 70 | 1.16 | .54 | 66.9 | 6.5 | 11.3 |
| Gregg 35W | 1.15 | .57 | 67.3 | 5.9 | 13.8 |
| Lockett BXL | 1.18 | .57 | 69.3 | 6.5 | 12.3 |
| Paymaster 111A | 1.13 | .55 | 67.3 | 6.3 | 12.6 |
| Coker 5110 | 1.22 | .58 | 65.3 | 6.2 | 12.1 |
| Stripper Cala S ... | 1.08 | .53 | 68.2 | 6.6 | 12.8 |
| Lankart 611 | 1.04 | .51 | 67.6 | 6.5 | 11.3 |

Table 37.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex.
(irrigated)

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Lockett BXL | 414 a | 4.83 | 36.8 | 10.8 | 5.15 |
| Coker 5110 | 386 ab | 4.22 | 38.2 | 10.5 | 5.00 |
| Tamcot 788 | 370 abc | 4.32 | 34.8 | 9.5 | 4.10 |
| Westburn 70 | 355 abcd | 5.14 | 36.0 | 10.3 | 4.90 |
| Paymaster 18 | 341 abcd | 4.37 | 34.0 | 10.9 | 5.90 |
| Paymaster 111A | 338 abcd | 5.41 | 37.2 | 11.0 | 5.00 |
| Lockett 4789A | 319 abcde | 4.51 | 36.6 | 10.1 | 5.00 |
| Coker 310 | 318 abcde | 4.09 | 38.6 | 10.1 | 5.35 |
| Deltapine 16 | 307 bcde | 4.23 | 38.6 | 9.9 | 5.65 |
| Lankart LX 571 | 304 bcde | 5.44 | 37.9 | 11.9 | 5.60 |
| Lankart 611 | 303 bcde | 4.94 | 37.5 | 10.7 | 4.55 |
| Paymaster 202 | 303 bcde | 4.64 | 37.3 | 10.1 | 5.20 |
| Stripper Cala S ... | 290 bcde | 4.66 | 34.5 | 10.3 | 4.40 |
| Tamcot Sp 21 | 287 bcde | 4.40 | 38.4 | 9.4 | 4.60 |
| Paymaster 909 | 275 cde | 4.98 | 39.4 | 10.2 | 5.80 |
| Acala 1517-70 | 258 de | 4.38 | 36.3 | 11.8 | 4.85 |
| Gregg 35W | 229 e | 4.53 | 36.8 | 12.4 | 4.90 |
| Dunn 119 | --- | --- | --- | --- | 5.05 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Lockett BXL | .97 | 0.44 | 65.6 | 7.0 | 10.9 |
| Coker 5110 | 1.02 | .43 | 65.3 | 7.5 | 10.2 |
| Tamcot 788 | .96 | .43 | 64.8 | 7.5 | 10.3 |
| Westburn 70 | 1.03 | .47 | 67.7 | 8.0 | 9.0 |
| Paymaster 18 | .89 | .42 | 66.1 | 7.2 | 8.0 |
| Paymaster 111A | .99 | .44 | 65.8 | 7.4 | 10.6 |
| Lockett 4789A | .94 | .43 | 65.3 | 7.9 | 10.2 |
| Coker 310 | 1.13 | .53 | 63.7 | 6.8 | 11.3 |
| Deltapine 16 | 1.02 | .47 | 64.8 | 7.3 | 11.0 |
| Lankart LX 571 | .98 | .45 | 63.0 | 8.0 | 9.2 |
| Lankart 611 | .95 | .44 | 65.1 | 7.9 | 9.5 |
| Paymaster 202 | .85 | .39 | 67.2 | 8.0 | 9.8 |
| Stripper Cala S ... | .95 | .43 | 65.6 | 7.4 | 10.2 |
| Tamcot Sp 21 | .99 | .44 | 68.8 | 7.7 | 10.0 |
| Paymaster 909 | .88 | .43 | 61.9 | 8.2 | 9.9 |
| Acala 1517-70 | 1.13 | .52 | 61.6 | 5.8 | 15.1 |
| Gregg 35W | 1.00 | .46 | 64.1 | 6.8 | 13.1 |
| Dunn 119 | .99 | .45 | 68.1 | 7.4 | 9.9 |

Table 38.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (dryland)

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Lockett BXL | 351 a | 5.36 | 38.4 | 10.5 | 5.15 |
| Lockett 4789A | 313 ab | 5.10 | 37.5 | 9.9 | 5.30 |
| Tamcot 788 | 290 abc | 4.86 | 36.5 | 8.7 | 4.00 |
| Tamcot Sp 21 | 289 abc | 4.86 | 39.5 | 9.3 | 4.95 |
| Paymaster 18 | 287 abc | 4.53 | 35.5 | 9.6 | 6.00 |
| Coker 5110 | 251 bc | 5.31 | 39.2 | 10.1 | 5.30 |
| Deltapine 16 | 244 bc | 4.59 | 39.7 | 9.5 | 5.60 |
| Lankart 611 | 244 bc | 5.91 | 39.2 | 10.9 | 5.10 |
| Paymaster 111A | 243 bc | 5.86 | 38.3 | 9.7 | 5.20 |
| Lankart LX 571 | 243 bc | 5.81 | 40.9 | 9.7 | 5.40 |
| Westburn 70 | 243 bc | 5.23 | 36.6 | 9.3 | 4.55 |
| Stripper Cala S ... | 232 bc | 5.05 | 35.8 | 9.5 | 4.50 |
| Coker 310 | 224 c | 4.60 | 40.3 | 10.0 | 5.40 |
| Acala 1517-70 | 224 c | 4.71 | 36.7 | 12.0 | 4.90 |
| Paymaster 909 | 222 c | 5.08 | 41.3 | 10.1 | 5.80 |
| Gregg 35W | 222 c | 4.62 | 38.9 | 10.0 | 5.00 |
| Paymaster 202 | 214 c | 5.30 | 38.2 | 10.0 | 5.15 |
| Dunn 119 | --- | --- | --- | --- | 5.05 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Lockett BXL | 1.03 | 0.49 | 64.3 | 6.5 | 11.4 |
| Lockett 4789A | .96 | .46 | 64.9 | 7.6 | 9.6 |
| Tamcot 788 | .96 | .43 | 64.1 | 7.6 | 10.3 |
| Tamcot Sp 21 | .96 | .44 | 67.3 | 7.7 | 9.7 |
| Paymaster 18 | .86 | .42 | 65.3 | 7.9 | 7.9 |
| Coker 5110 | 1.00 | .44 | 66.0 | 6.6 | 10.7 |
| Deltapine 16 | 1.04 | .50 | 68.8 | 6.4 | 11.8 |
| Lankart 611 | .92 | .42 | 66.5 | 7.7 | 8.6 |
| Paymaster 111A | .96 | .45 | 63.0 | 7.2 | 10.9 |
| Lankart LX 571 | .93 | .44 | 64.9 | 7.5 | 8.9 |
| Westburn 70 | .97 | .43 | 65.4 | 7.1 | 9.3 |
| Stripper Cala S ... | .96 | .44 | 63.7 | 7.5 | 10.5 |
| Coker 310 | 1.07 | .50 | 66.5 | 6.8 | 11.2 |
| Acala 1517-70 | 1.10 | .52 | 64.0 | 6.0 | 14.5 |
| Paymaster 909 | .88 | .43 | 65.1 | 8.1 | 9.1 |
| Gregg 35W | 1.01 | .49 | 65.3 | 6.5 | 12.2 |
| Paymaster 202 | .92 | .44 | 64.0 | 7.5 | 10.3 |
| Dunn 119 | 1.02 | .45 | 67.8 | 6.3 | 11.5 |

Table 39.--Plains test: Yield, boll, and spinning data for Mangum, Okla.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Paymaster 202 | 224 a | 5.92 | 34.2 | 15.0 | 5.60 |
| Coker 310 | 202 ab | 5.68 | 36.0 | 12.5 | 5.50 |
| Tamcot Sp 21 | 201 ab | 4.86 | 33.3 | 12.0 | 4.80 |
| Paymaster 18 | 201 ab | 5.10 | 32.6 | 12.0 | 6.20 |
| Gregg 35W | 186 abc | 5.82 | 33.6 | 15.0 | 5.00 |
| Coker 5110 | 182 abc | 5.18 | 33.1 | 12.0 | 5.20 |
| Paymaster 111A | 178 abc | 6.72 | 33.8 | 14.5 | 5.50 |
| Lankart 611 | 176 abc | 6.82 | 36.4 | 14.0 | 5.40 |
| Dunn 119 | 172 abcd | 6.24 | 34.1 | 17.0 | 5.10 |
| Tamcot 788 | 160 abcd | 6.34 | 35.3 | 13.5 | 4.90 |
| Lockett 4789A | 141 abcd | 5.60 | 32.2 | 13.0 | 5.35 |
| Acala 1517-70 | 131 abcd | 4.16 | 30.0 | 14.0 | 5.00 |
| Stripper Cala S ... | 131 abcd | 6.02 | 31.0 | 14.0 | 4.85 |
| Westburn 70 | 117 bcd | 6.84 | 33.3 | 15.5 | 6.00 |
| Deltapine 16 | 115 bcd | 5.16 | 33.5 | 13.5 | 5.30 |
| Lockett BXL | 99 cd | 5.64 | 32.4 | 13.0 | 5.10 |
| Lankart LX 571 | 92 cd | 7.20 | 34.3 | 15.5 | 5.40 |
| Paymaster 909 | 80 d | 6.60 | 34.4 | 14.5 | 5.95 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Paymaster 202 | 1.07 | 0.54 | 70.6 | 7.8 | 12.6 |
| Coker 310 | 1.21 | .58 | 69.8 | 8.0 | 12.4 |
| Tamcot Sp 21 | 1.15 | .55 | 72.2 | 6.9 | 12.4 |
| Paymaster 18 | .96 | .48 | 68.4 | 7.3 | 10.7 |
| Gregg 35W | 1.21 | .59 | 69.9 | 7.1 | 13.5 |
| Coker 5110 | 1.21 | .55 | 68.3 | 7.6 | 12.2 |
| Paymaster 111A | 1.12 | .54 | 68.4 | 7.0 | 12.9 |
| Tamcot 788 | 1.19 | .54 | 70.6 | 7.2 | 14.4 |
| Lockett 4789A | 1.12 | .54 | 69.5 | 7.7 | 12.1 |
| Acala 1517-70 | 1.18 | .58 | 71.1 | 7.4 | 15.3 |
| Stripper Cala S ... | 1.14 | .54 | 70.9 | 7.7 | 13.2 |
| Westburn 70 | 1.09 | .53 | 69.9 | 7.8 | 10.6 |
| Deltapine 16 | 1.20 | .58 | 71.4 | 7.1 | 12.1 |
| Lockett BXL | 1.18 | .54 | 67.1 | 7.3 | 11.6 |
| Lankart LX 571 | 1.10 | .53 | 71.0 | 7.6 | 11.2 |
| Paymaster 909 | 1.04 | .55 | 69.1 | 7.7 | 12.4 |

WESTERN REGIONAL COTTON VARIETY TEST

Table 40.--Western test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Deltapine 16 | 1401 a | 6.14 cd | 39.7 ab | 11.1 d | 4.91 b |
| Stoneville 256 | 1369 ab | 5.77 e | 40.0 ab | 10.8 d | 4.61 c |
| Deltapine 61 | 1359 ab | 5.89 de | 40.2 ab | 10.7 d | 4.97 b |
| Coker 310 | 1307 ab | 6.16 cd | 40.6 a | 11.0 d | 4.84 bc |
| Ariz. 6608 | 1286 ab | 6.28 bc | 39.6 ab | 12.1 c | 4.88 bc |
| Acala 1517-70 | 1251 abc | 6.60 b | 37.7 c | 12.8 ab | 4.85 bc |
| Acala 1517-75 | 1221 bc | 6.37 bc | 39.3 b | 12.4 bc | 4.72 bc |
| Paymaster 909 | 1093 c | 7.61 a | 40.3 ab | 13.1 a | 5.35 a |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Deltapine 16 | 1.16 ab | 0.55 ab | 77.3 a | 7.8 cd | 12.0 b |
| Stoneville 256 | 1.14 b | .54 bc | 76.3 a | 7.7 cd | 11.5 b |
| Deltapine 61 | 1.17 ab | .56 ab | 77.6 a | 8.0 bc | 12.0 b |
| Coker 310 | 1.18 ab | .55 ab | 76.6 a | 8.2 abc | 11.8 b |
| Ariz. 6608 | 1.18 a | .57 a | 76.1 a | 8.2 abc | 13.4 a |
| Acala 1517-70 | 1.18 a | .56 ab | 77.2 a | 8.6 a | 13.6 a |
| Acala 1517-75 | 1.19 a | .57 a | 76.7 a | 7.4 d | 13.4 a |
| Paymaster 909 | 1.04 c | .52 c | 76.2 a | 8.4 ab | 11.3 b |

Table 41.--Western test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Phoenix, AZ | 1826 a | 5.82 b | 38.1 c | 11.2 c | 5.38 a |
| Las Cruces, NM | 1338 b | 6.65 a | 39.6 b | 11.4 c | 4.46 c |
| El Paso, TX | 1147 c | 6.41 a | 40.7 a | 12.0 b | 4.83 b |
| Artesia, NM | 910 d | 6.47 a | 40.2 ab | 12.3 a | 5.05 b |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Phoenix, AZ | 1.13 b | 0.53 b | 76.2 b | 8.3 a | 12.0 b |
| Las Cruces, NM | 1.19 a | .57 a | 78.9 a | 8.6 a | 13.0 a |
| El Paso, TX | 1.13 b | .54 b | 75.8 b | 7.5 b | 12.0 b |
| Artesia, NM | 1.17 a | .57 a | 75.2 b | 7.7 b | 12.7 ab |

Table 42.--Western test: Combined yield, boll, and spinning data for Las Cruces and Artesia, N. Mex., and El Paso, Tex., by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Acala 1517-75 | 1221 a | 6.37 | 39.3 | 12.4 | 4.72 |
| Deltapine 16 | 1215 a | 6.28 | 40.2 | 11.3 | 4.68 |
| Acala 1517-70 | 1178 a | 6.77 | 38.7 | 12.9 | 4.80 |
| Stoneville 256 | 1139 a | 5.89 | 40.4 | 11.1 | 4.22 |
| Coker 310 | 1132 a | 6.30 | 41.3 | 11.1 | 4.72 |
| Deltapine 61 | 1080 a | 6.12 | 40.5 | 11.1 | 4.80 |
| Ariz. 6608 | 1048 a | 6.37 | 39.8 | 12.2 | 4.66 |
| Paymaster 909 | 1035 a | 7.97 | 41.1 | 13.0 | 5.26 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Acala 1517-75 | 1.19 | 0.57 | 76.7 | 7.4 | 13.4 |
| Deltapine 16 | 1.18 | .57 | 76.9 | 7.8 | 12.4 |
| Acala 1517-70 | 1.19 | .57 | 77.8 | 8.6 | 13.4 |
| Stoneville 256 | 1.15 | .55 | 76.1 | 7.6 | 11.7 |
| Coker 310 | 1.17 | .56 | 76.9 | 8.1 | 11.8 |
| Deltapine 61 | 1.17 | .56 | 78.4 | 7.9 | 11.9 |
| Ariz. 6608 | 1.19 | .58 | 76.1 | 8.1 | 13.8 |
| Paymaster 909 | 1.05 | .53 | 76.8 | 8.4 | 11.4 |

Table 43.--Western test: Yield, boll, and spinning data for Phoenix, Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|--------------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Deltapine 61 | 2197 a | 5.20 | 39.4 | 9.6 | 5.40 |
| Stoneville 256 | 2059 ab | 5.40 | 38.7 | 10.0 | 5.60 |
| Ariz. 6608 | 1999 b | 6.00 | 39.0 | 11.9 | 5.45 |
| Deltapine 16 | 1959 bc | 5.75 | 38.4 | 10.3 | 5.50 |
| Coker 310 | 1831 c | 5.75 | 38.3 | 10.7 | 5.15 |
| Acala 1517-70 | 1470 d | 6.10 | 34.9 | 12.5 | 5.00 |
| Paymaster 909 | 1266 e | 6.55 | 37.9 | 13.4 | 5.60 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R _d | Hunter's <i>b</i> value | |
| Deltapine 61 | 1.16 | 0.57 | 75.8 | 8.2 | 12.4 |
| Stoneville 256 | 1.14 | .53 | 76.9 | 8.1 | 10.9 |
| Ariz. 6608 | 1.16 | .55 | 76.1 | 8.4 | 12.5 |
| Deltapine 16 | 1.12 | .51 | 78.4 | 8.0 | 11.0 |
| Coker 310 | 1.18 | .54 | 75.9 | 8.3 | 11.9 |
| Acala 1517-70 | 1.17 | .55 | 75.7 | 8.7 | 14.3 |
| Paymaster 909 | 1.02 | .51 | 74.6 | 8.3 | 11.0 |

Table 44.--Western test: Yield, boll, and spinning data for Las Cruces, N. Mex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Acala 1517-75 | 1577 a | 6.49 | 39.2 | 12.2 | 4.45 |
| Acala 1517-70 | 1479 ab | 6.91 | 38.2 | 12.4 | 4.65 |
| Coker 310 | 1459 ab | 6.60 | 40.8 | 10.8 | 4.70 |
| Deltapine 16 | 1331 bc | 6.51 | 39.5 | 11.0 | 4.70 |
| Stoneville 256 | 1276 cd | 5.72 | 39.9 | 10.0 | 2.80 |
| Paymaster 909 | 1230 cd | 8.18 | 40.1 | 12.8 | 5.35 |
| Deltapine 61 | 1194 cd | 6.13 | 39.9 | 10.4 | 4.60 |
| Ariz. 6608 | 1155 d | 6.64 | 39.4 | 11.8 | 4.45 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Acala 1517-75 | 1.22 | 0.61 | 79.4 | 8.0 | 14.8 |
| Acala 1517-70 | 1.25 | .60 | 79.3 | 9.5 | 15.0 |
| Coker 310 | 1.25 | .59 | 78.3 | 8.2 | 12.9 |
| Deltapine 16 | 1.20 | .57 | 79.4 | 8.2 | 11.7 |
| Stoneville 256 | 1.18 | .56 | 80.3 | 8.5 | 11.9 |
| Paymaster 909 | 1.08 | .55 | 77.3 | 8.9 | 11.7 |
| Deltapine 61 | 1.20 | .56 | 79.3 | 8.2 | 12.1 |
| Ariz. 6608 | 1.19 | .58 | 77.8 | 9.4 | 14.2 |

Table 45.--Western test: Yield, boll, and spinning data for El Paso, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------------|------------------------------|
| Deltapine 16 | 1424 a | 5.98 | 41.4 | 11.4 | 4.50 |
| Stoneville 256 | 1215 b | 5.74 | 40.6 | 11.4 | 5.00 |
| Acala 1517-75 | 1173 b | 6.22 | 39.2 | 12.4 | 5.05 |
| Deltapine 61 | 1159 b | 5.93 | 42.1 | 10.9 | 4.75 |
| Coker 310 | 1096 bc | 6.21 | 42.3 | 10.9 | 4.55 |
| Acala 1517-70 | 1077 bc | 6.82 | 38.4 | 13.0 | 5.05 |
| Paymaster 909 | 1047 bc | 7.97 | 41.7 | 13.4 | 5.10 |
| Ariz. 6608 | 973 c | 6.43 | 40.4 | 12.4 | 4.75 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R _d | Hunter's b value | Yarn tenacity (cN/tex) |
| Deltapine 16 | 1.17 | 0.57 | 75.2 | 7.4 | 13.8 |
| Stoneville 256 | 1.10 | .53 | 74.3 | 7.1 | 11.7 |
| Acala 1517-75 | 1.14 | .53 | 76.9 | 7.6 | 11.2 |
| Deltapine 61 | 1.12 | .54 | 77.9 | 7.4 | 11.8 |
| Coker 310 | 1.10 | .53 | 75.9 | 8.1 | 10.5 |
| Acala 1517-70 | 1.14 | .54 | 76.3 | 7.9 | 11.3 |
| Paymaster 909 | 1.03 | .51 | 77.0 | 7.9 | 11.3 |
| Ariz. 6608 | 1.20 | .58 | 74.0 | 6.9 | 13.2 |

Table 46.--Western test: Yield, boll, and spinning data for Artesia, N. Mex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Ariz. 6608 | 1016 a | 6.05 | 39.7 | 12.4 | 4.90 |
| Acala 1517-70 | 977 ab | 6.60 | 39.4 | 13.3 | 4.60 |
| Stoneville 256 | 926 abc | 6.22 | 40.9 | 12.0 | 5.50 |
| Acala 1517-75 | 914 abc | 6.42 | 39.6 | 12.5 | 4.60 |
| Deltapine 16 | 889 abc | 6.35 | 39.7 | 11.7 | 5.00 |
| Deltapine 61 | 886 abc | 6.30 | 39.6 | 12.1 | 5.30 |
| Coker 310 | 841 bc | 6.10 | 41.0 | 11.5 | 5.10 |
| Paymaster 909 | 827 c | 7.75 | 41.5 | 13.3 | 5.40 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------------|----------------------|------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| Ariz. 6608 | 1.20 | 0.59 | 77.1 | 7.7 | 14.4 |
| Acala 1517-70 | 1.17 | .57 | 77.9 | 8.2 | 14.6 |
| Stoneville 256 | 1.17 | .57 | 71.4 | 7.0 | 11.5 |
| Acala 1517-75 | 1.22 | .59 | 70.9 | 5.8 | 14.9 |
| Deltapine 16 | 1.18 | .57 | 75.4 | 7.9 | 11.1 |
| Deltapine 61 | 1.23 | .60 | 77.6 | 8.4 | 11.8 |
| Coker 310 | 1.19 | .58 | 76.5 | 8.2 | 12.1 |
| Paymaster 909 | 1.02 | .53 | 75.5 | 8.5 | 11.3 |

SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 47.--San Joaquin test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Acala SJ-4 | 1092 a | 6.80 ab | 38.7 a | 11.4 b | 4.35 ab |
| Acala SJ-2 | 1089 a | 6.98 a | 38.6 a | 11.9 b | 4.12 bc |
| Acala 1517-70 | 1055 a | 6.40 b | 37.1 b | 11.2 b | 3.93 c |
| Deltapine 16 | 1051 a | 5.80 c | 38.8 a | 9.7 c | 3.96 c |
| Coker 310 | 1045 a | 5.47 c | 39.4 a | 9.4 c | 4.02 c |
| Paymaster 909 | 846 b | 7.04 a | 39.0 a | 13.1 a | 4.58 a |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|--------|-------------|---------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's b value | |
| Acala SJ-4 | 1.12 bc | 0.51 a | 75.2 b | 8.1 b | 14.5 ab |
| Acala SJ-2 | 1.14 ab | .51 a | 75.0 b | 8.5 ab | 13.4 b |
| Acala 1517-70 | 1.14 a | .50 a | 75.0 b | 8.2 b | 14.9 a |
| Deltapine 16 | 1.11 c | .46 b | 77.1 a | 8.2 b | 9.5 d |
| Coker 310 | 1.15 a | .46 b | 75.2 b | 8.3 ab | 11.2 c |
| Paymaster 909 | .99 d | .46 b | 73.8 c | 8.7 a | 11.1 c |

Table 48.--San Joaquin test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| West Side Field | | | | | |
| Station, CA | 1467 a | 6.30 bc | 40.2 a | 11.0 b | 4.47 b |
| Maricopa, CA | 1110 b | 6.55 ab | 39.2 a | 11.8 a | 4.69 a |
| Woodville, CA | 782 c | 6.01 c | 37.6 b | 11.2 ab | 3.50 d |
| Madera, CA | 761 c | 6.81 a | 37.4 b | 10.5 b | 3.98 c |

| Location | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|--------|-------------|---------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's b value | |
| West Side Field | | | | | |
| Station, CA | 1.13 a | 0.50 a | 74.9 c | 8.6 a | 12.4 a |
| Maricopa, CA | 1.11 b | .49 b | 74.5 d | 8.5 a | 12.5 a |
| Woodville, CA | 1.12 b | .47 c | 75.4 b | 7.7 b | 12.7 a |
| Madera, CA | 1.06 c | .46 d | 76.0 a | 8.4 a | 12.1 a |

Table 49.--San Joaquin test: Yield, boll, and spinning data for West Side Field Station, Calif.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Coker 310 | 1633 a | 5.40 | 42.4 | 9.7 | 4.40 |
| Acala SJ-2 | 1532 b | 6.71 | 40.2 | 11.7 | 4.60 |
| Acala 1517-70 | 1511 b | 6.35 | 38.5 | 10.3 | 4.30 |
| Deltapine 16 | 1480 bc | 5.84 | 40.0 | 10.1 | 4.20 |
| Acala SJ-4 | 1404 c | 6.87 | 40.6 | 10.5 | 4.50 |
| Paymaster 909 | 1240 d | 6.64 | 39.9 | 13.9 | 4.85 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Coker 310 | 1.17 | 0.50 | 75.8 | 8.6 | 12.5 |
| Acala SJ-2 | 1.16 | .53 | 74.4 | 8.4 | 13.8 |
| Acala 1517-70 | 1.17 | .51 | 74.7 | 8.5 | 14.8 |
| Deltapine 16 | 1.13 | .48 | 76.9 | 9.2 | 9.8 |
| Acala SJ-4 | 1.15 | .52 | 74.1 | 8.2 | 13.3 |
| Paymaster 909 | 1.03 | .49 | 73.7 | 8.7 | 10.5 |

Table 50.--San Joaquin test: Yield, boll, and spinning data for Maricopa, Calif.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Acala SJ-2 | 1282 a | 7.34 | 39.2 | 12.2 | 4.50 |
| Coker 310 | 1261 a | 5.62 | 40.2 | 10.2 | 4.65 |
| Deltapine 16 | 1236 a | 5.70 | 40.1 | 10.3 | 4.90 |
| Acala 1517-70 | 1100 ab | 6.85 | 36.4 | 13.3 | 4.30 |
| Acala SJ-4 | 958 bc | 6.65 | 38.5 | 12.9 | 4.65 |
| Paymaster 909 | 820 c | 7.14 | 40.7 | 13.2 | 5.15 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Acala SJ-2 | 1.14 | 0.51 | 74.1 | 8.8 | 13.7 |
| Coker 310 | 1.14 | .47 | 74.5 | 8.0 | 10.8 |
| Deltapine 16 | 1.11 | .47 | 76.8 | 8.2 | 9.8 |
| Acala 1517-70 | 1.18 | .52 | 73.9 | 8.3 | 14.8 |
| Acala SJ-4 | 1.13 | .52 | 74.0 | 8.3 | 14.8 |
| Paymaster 909 | .99 | .46 | 73.6 | 9.6 | 11.1 |

Table 51.--San Joaquin test: Yield, boll, and spinning data for Woodville, Calif.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Acala SJ-4 | 1052 a | 6.52 | 38.2 | 12.1 | 4.00 |
| Acala 1517-70 | 851 b | 5.62 | 36.6 | 12.1 | 3.30 |
| Deltapine 16 | 772 c | 5.30 | 37.3 | 9.1 | 3.10 |
| Acala SJ-2 | 743 c | 6.27 | 37.6 | 12.1 | 3.40 |
| Paymaster 909 | 659 d | 7.51 | 37.0 | 13.4 | 4.05 |
| Coker 310 | 617 e | 4.83 | 38.9 | 8.8 | 3.20 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Acala SJ-4 | 1.14 | 0.50 | 76.2 | 7.8 | 15.6 |
| Acala 1517-70 | 1.15 | .50 | 75.6 | 7.8 | 15.2 |
| Deltapine 16 | 1.13 | .44 | 77.6 | 7.6 | 9.3 |
| Acala SJ-2 | 1.17 | .51 | 74.7 | 7.7 | 12.2 |
| Paymaster 909 | .99 | .45 | 73.7 | 8.1 | 11.6 |
| Coker 310 | 1.13 | .34 | 74.8 | 7.5 | 12.1 |

Table 52.--San Joaquin test: Yield, boll, and spinning data for Madera, Calif.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| Acala SJ-4 | 954 a | 7.19 | 37.6 | 10.1 | 4.25 |
| Acala SJ-2 | 799 ab | 7.62 | 37.5 | 11.8 | 4.00 |
| Acala 1517-70 | 758 b | 6.77 | 36.9 | 10.5 | 3.85 |
| Deltapine 16 | 718 b | 6.35 | 37.9 | 9.6 | 3.65 |
| Coker 310 | 671 b | 6.05 | 36.1 | 9.1 | 3.85 |
| Paymaster 909 | 667 b | 6.88 | 38.6 | 12.1 | 4.30 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| Acala SJ-4 | 1.07 | 0.49 | 76.6 | 8.1 | 14.4 |
| Acala SJ-2 | 1.08 | .49 | 76.7 | 9.1 | 14.0 |
| Acala 1517-70 | 1.07 | .47 | 75.7 | 8.3 | 14.7 |
| Deltapine 16 | 1.08 | .46 | 77.2 | 7.8 | 9.1 |
| Coker 310 | 1.15 | .45 | 75.5 | 9.1 | 9.3 |
| Paymaster 909 | .95 | .44 | 74.0 | 8.4 | 11.3 |

HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 53.--High-quality test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 845 a | 6.09 def | 38.9 bc | 11.0 f | 5.03 cd |
| McNair 3034 | 775 ab | 6.36 bc | 40.0 a | 11.2 ef | 4.76 gh |
| Deltapine 16 | 732 abc | 6.12 cdef | 37.7 efgh | 11.2 ef | 5.04 bcd |
| Mo. 69-495 | 730 abc | 6.00 ef | 38.9 bc | 11.2 ef | 4.82 fgh |
| Mo. 63-277 BR-1 ... | 722 bc | 6.32 bcd | 38.8 bcd | 11.8 cd | 4.55 i |
| Vail 7 | 712 bc | 6.00 ef | 37.9 defg | 11.4 def | 5.11 bc |
| Coker 420-511 | 710 bc | 6.25 bcde | 36.3 i | 12.1 bc | 4.90 ef |
| Coker 310 | 708 bc | 6.04 ef | 38.6 bcde | 11.3 ef | 4.86 efg |
| Stoneville 1114 ... | 707 bc | 6.00 ef | 39.4 ab | 11.8 cd | 5.14 bc |
| Mo. 63-277K | 688 bcd | 6.73 a | 37.5 fgh | 12.5 ab | 4.43 j |
| Coker 420-6912 | 678 bcde | 6.01 ef | 36.9 hi | 11.5 de | 4.76 gh |
| Mo. 63-277 BR-2 ... | 677 bcde | 6.43 b | 38.4 cdef | 11.8 cd | 4.75 gh |
| Stoneville 537 | 674 bcde | 5.95 fg | 37.7 efgh | 12.8 a | 5.16 b |
| La. 15177S | 659 bcde | 5.88 fgh | 36.9 ghi | 11.6 de | 5.06 bcd |
| Bayou 73 | 651 cde | 5.99 f | 37.7 efgh | 11.3 ef | 4.74 gh |
| PD 2173 | 645 cde | 5.67 hi | 39.1 abc | 11.0 f | 4.84 efg |
| PD 2292 | 628 cde | 5.58 i | 38.4 cdef | 11.5 de | 4.96 de |
| Pee Dee 0113 | 575 de | 5.73 ghi | 37.4 gh | 11.6 de | 4.82 fgh |
| Acala 1517-70 | 561 e | 6.42 b | 36.1 i | 12.8 a | 4.71 h |
| PD 2137 | 559 e | 5.14 j | 39.1 abc | 12.3 b | 5.32 a |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| McNair 3035 | 1.13 h | 0.54 ij | 74.2 bcde | 7.8 g | 12.9 f |
| McNair 3034 | 1.17 de | .55 ghi | 74.9 a | 8.2 cdefg | 13.0 f |
| Deltapine 16 | 1.16 de | .55 hi | 76.2 a | 7.9 fg | 12.3 g |
| Mo. 69-495 | 1.16 efg | .57 cdefg | 74.5 bcd | 8.4 cde | 13.1 f |
| Mo. 63-277 BR-1 ... | 1.20 ab | .58 abc | 74.3 bcde | 9.6 abc | 14.0 cde |
| Vail 7 | 1.14 gh | .53 jk | 74.8 bc | 8.1 defg | 12.1 g |
| Coker 420-511 | 1.21 a | .58 ab | 74.0 cde | 8.2 cdefg | 14.0 cde |
| Coker 310 | 1.19 bc | .55 fghi | 73.6 ef | 8.2 defg | 13.2 f |
| Stoneville 1114 ... | 1.17 de | .57 bcde | 73.8 def | 8.0 fg | 14.1 cd |
| Mo. 63-277K | 1.19 bc | .57 bcde | 73.8 def | 8.9 ab | 13.7 de |
| Coker 420-6912 | 1.20 ab | .57 abcd | 74.5 bcd | 8.1 efg | 14.0 cde |
| Mo. 63-277 BR-2 ... | 1.16 def | .57 cdefg | 73.9 de | 8.3 cdef | 13.8 de |
| Stoneville 537 | 1.17 de | .57 bcde | 75.0 b | 7.9 fg | 13.1 f |
| La. 15177S | 1.19 bc | .57 cdef | 73.7 def | 9.0 a | 13.6 e |
| Bayou 73 | 1.15 fg | .56 efghi | 74.3 bcde | 8.0 efg | 13.3 f |
| PD 2173 | 1.18 cd | .56 cdefgh | 73.0 fg | 8.1 defg | 14.7 a |
| PD 2292 | 1.17 de | .56 cdefg | 73.8 def | 8.2 cdefg | 14.3 bc |
| Pee Dee 0113 | 1.17 de | .57 bcd | 74.8 bc | 8.0 efg | 14.2 bc |
| Acala 1517-70 | 1.17 de | .57 cdef | 74.2 bcde | 8.5 bcd | 14.9 a |
| PD 2137 | 1.20 b | .59 a | 72.7 g | 8.2 defg | 14.6 ab |

Table 54.--High-quality test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading | |
|-----------------------------|-------------------------|-----------------------|-----------------|----------------------------|---------------------------------------|--|
| St. Joseph, LA | 1135 a | 6.03 cd | 38.9 b | 12.4 b | 4.88 d | |
| Portageville, MO .. | 924 b | 6.62 a | 36.0 e | 12.7 a | 4.62 e | |
| Tifton, GA | 709 c | 5.93 d | 38.4 c | 11.6 c | 4.93 d | |
| Florence, SC | 697 c | 6.53 a | 38.9 b | 11.3 d | 5.22 a | |
| Jackson, TN | 669 d | 6.15 bc | 37.2 d | 11.8 c | 4.92 d | |
| College Station, TX | 647 de | 6.31 b | 37.0 d | 11.3 d | 5.03 c | |
| Stoneville, MS | 642 e | 5.28 e | 36.3 e | 10.6 e | 5.30 a | |
| Rocky Mount, NC ... | 539 f | 6.57 a | 39.2 b | 12.2 b | 4.23 f | |
| Belle Mina, AL | 493 g | 6.26 b | 41.5 a | 11.3 d | 5.12 b | |
| Rohwer, AR | 378 h | 4.67 f | 37.2 d | --- | 4.65 e | |
| <u>Span length (inches)</u> | | <u>Colorimeter</u> | | | <u>Yarn tenacity (cN/tex)</u> | |
| | 2.5% | 50% | \bar{R}_d | Hunter's <i>b</i> value | | |
| St. Joseph, LA | 1.19 bc | 0.57 bc | 76.6 bc | 7.6 f | 13.4 cd | |
| Portageville, MO .. | 1.20 ab | .55 d | 68.8 h | 7.3 g | 13.5 cd | |
| Tifton, GA | 1.19 abc | .57 bc | 71.9 f | 8.7 c | 13.6 c | |
| Florence, SC | 1.20 a | .60 a | 76.3 c | 9.4 a | 13.3 de | |
| Jackson, TN | 1.17 d | .54 d | 75.3 d | 9.0 b | 13.5 cd | |
| College Station, TX | 1.12 e | .55 d | 70.7 g | 8.0 de | 13.1 e | |
| Stoneville, MS | 1.18 c | .55 d | 77.4 a | 8.5 c | 15.3 a | |
| Rocky Mount, NC ... | 1.19 abc | .57 b | 74.2 e | 7.7 ef | 13.5 cd | |
| Belle Mina, AL | 1.12 e | .55 d | 74.0 e | 7.9 def | 12.2 f | |
| Rohwer, AR | 1.17 d | .57 c | 77.1 ab | 8.1 d | 14.8 b | |

Table 55.--High-quality test: Combined yield, boll, and spinning data for St. Joseph, La.; Portageville, Mo.; Jackson, Tenn.; Stoneville, Miss.; College Station, Tex.; and Rohwer, Ark.*

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 895 a | 5.91 | 37.9 | 11.2 | 4.96 |
| McNair 3034 | 847 ab | 5.94 | 39.1 | 11.1 | 4.61 |
| Coker 420-511 | 795 abc | 6.10 | 35.1 | 12.2 | 4.75 |
| Mo. 69-495 | 794 abc | 5.94 | 38.3 | 11.3 | 4.74 |
| Stoneville 1114 ... | 785 bc | 5.69 | 38.8 | 11.8 | 5.02 |
| Mo. 63-277 BR-1 ... | 780 bcd | 6.26 | 37.9 | 11.9 | 4.42 |
| Deltapine 16 | 778 bcd | 4.81 | 36.7 | 11.4 | 4.94 |
| Coker 420-6912 | 746 bcde | 5.86 | 35.8 | 11.5 | 4.60 |
| Mo. 63-277 BR-2 ... | 739 cde | 6.20 | 37.7 | 11.8 | 4.56 |
| Mo. 63-277K | 731 cde | 6.49 | 36.7 | 12.5 | 4.21 |
| Coker 310 | 727 cde | 5.89 | 37.2 | 11.4 | 4.65 |
| La. 15177S | 725 cde | 5.68 | 35.9 | 11.6 | 4.93 |
| Stoneville 537 | 721 cdef | 5.72 | 36.9 | 12.7 | 4.99 |
| Vail 7 | 716 cdef | 5.86 | 36.9 | 11.7 | 5.00 |
| Bayou 73 | 704 cdefg | 5.72 | 37.1 | 11.1 | 4.60 |
| Acala 1517-70 | 679 defgh | 6.26 | 35.9 | 12.9 | 4.70 |
| PD 2173 | 643 efgh | 5.44 | 37.7 | 11.1 | 4.75 |
| PD 2292 | 621 fgh | 5.40 | 37.2 | 11.7 | 4.88 |
| Pee Dee 0113 | 607 gh | 5.59 | 36.3 | 11.7 | 4.71 |
| PD 2137 | 580 h | 5.02 | 37.7 | 12.5 | 5.19 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.13 | 0.54 | 74.2 | 7.9 | 13.2 |
| McNair 3034 | 1.17 | .54 | 76.2 | 8.1 | 13.2 |
| Coker 420-511 | 1.22 | .58 | 74.4 | 8.2 | 14.4 |
| Mo. 69-495 | 1.15 | .56 | 75.2 | 8.3 | 13.2 |
| Stoneville 1114 ... | 1.16 | .56 | 73.7 | 7.9 | 14.4 |
| Mo. 63-277 BR-1 ... | 1.21 | .57 | 74.4 | 8.5 | 14.3 |
| Deltapine 16 | 1.17 | .55 | 76.1 | 7.9 | 12.6 |
| Coker 420-6912 | 1.20 | .57 | 74.8 | 8.0 | 14.2 |
| Mo. 63-277 BR-2 ... | 1.15 | .55 | 73.8 | 8.2 | 14.2 |
| Mo. 63-277K | 1.19 | .56 | 74.0 | 8.8 | 14.0 |
| Coker 310 | 1.19 | .55 | 73.8 | 7.9 | 13.5 |
| La. 15177S | 1.19 | .55 | 73.9 | 8.8 | 13.7 |
| Stoneville 537 | 1.16 | .56 | 75.0 | 7.7 | 13.5 |
| Vail 7 | 1.14 | .52 | 74.9 | 7.9 | 12.3 |
| Bayou 73 | 1.16 | .56 | 74.0 | 7.7 | 13.7 |
| Acala 1517-70 | 1.17 | .55 | 74.6 | 8.4 | 15.4 |
| PD 2173 | 1.18 | .55 | 74.7 | 7.9 | 15.2 |
| PD 2292 | 1.17 | .56 | 73.7 | 7.9 | 14.4 |
| Pee Dee 0113 | 1.17 | .56 | 75.2 | 8.0 | 14.6 |
| PD 2137 | 1.19 | .58 | 72.6 | 8.0 | 14.8 |

*No seed index data available for Rohwer, Ark.

Table 56.--High-quality test: Combined yield, boll, and spinning data for Tifton, Ga.; Florence, S.C.; Rocky Mount, N.C.; and Belle Mina, Ala.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 770 a | 6.36 | 40.5 | 10.8 | 5.13 |
| Vail 7 | 708 ab | 6.22 | 39.4 | 11.1 | 5.27 |
| McNair 3034 | 685 abc | 6.88 | 41.1 | 11.3 | 5.13 |
| Coker 310 | 681 abc | 6.27 | 40.5 | 11.2 | 5.18 |
| Deltapine 16 | 663 abc | 6.59 | 39.1 | 11.1 | 5.20 |
| PD 2173 | 647 abcd | 6.03 | 41.2 | 10.9 | 4.97 |
| PD 2292 | 638 bcd | 5.85 | 40.3 | 11.2 | 5.07 |
| Mo. 63-277 BR-1 ... | 636 bcd | 6.42 | 40.1 | 11.7 | 4.75 |
| Mo. 69-495 | 634 bcd | 6.09 | 39.9 | 11.1 | 4.93 |
| Mo. 63-277K | 624 bcd | 7.08 | 38.7 | 12.5 | 4.75 |
| Stoneville 537 | 604 bcd | 6.29 | 38.8 | 13.0 | 5.42 |
| Stoneville 1114 ... | 591 bcd | 6.45 | 40.4 | 11.8 | 5.31 |
| Coker 420-511 | 583 bcd | 6.47 | 37.9 | 12.0 | 5.12 |
| Mo. 63-277 BR-2 ... | 583 bcd | 6.77 | 39.5 | 11.7 | 5.03 |
| Coker 420-6912 | 577 cd | 6.24 | 38.5 | 11.6 | 4.98 |
| Bayou 73 | 572 cd | 6.38 | 38.6 | 11.6 | 4.95 |
| La. 15177S | 560 cd | 6.18 | 38.5 | 11.7 | 5.26 |
| PD 2137 | 529 d | 5.32 | 41.2 | 12.1 | 5.52 |
| Pee Dee 0113 | 527 d | 5.94 | 39.0 | 11.3 | 4.98 |
| Acala 1517-70 | 383 e | 6.66 | 36.6 | 12.5 | 4.72 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.13 | 0.55 | 74.2 | 7.7 | 12.6 |
| Vail 7 | 1.15 | .55 | 74.7 | 8.4 | 11.7 |
| McNair 3034 | 1.13 | .55 | 74.2 | 7.7 | 12.6 |
| Coker 310 | 1.19 | .56 | 73.3 | 8.6 | 12.7 |
| Deltapine 16 | 1.16 | .55 | 76.2 | 8.0 | 11.8 |
| PD 2173 | 1.18 | .57 | 73.3 | 8.5 | 14.0 |
| PD 2292 | 1.17 | .57 | 74.0 | 8.6 | 14.0 |
| Mo. 63-277 BR-1 ... | 1.19 | .58 | 74.3 | 8.8 | 13.6 |
| Mo. 69-495 | 1.16 | .58 | 73.4 | 8.6 | 12.9 |
| Mo. 63-277K | 1.19 | .58 | 73.5 | 9.1 | 13.2 |
| Stoneville 537 | 1.18 | .58 | 75.0 | 8.2 | 12.5 |
| Stoneville 1114 ... | 1.17 | .59 | 74.0 | 8.1 | 13.5 |
| Coker 420-511 | 1.21 | .60 | 73.4 | 8.2 | 13.4 |
| Mo. 63-277 BR-2 ... | 1.18 | .59 | 74.0 | 8.5 | 13.2 |
| Coker 420-6912 | 1.20 | .59 | 74.1 | 8.3 | 13.7 |
| Bayou 73 | 1.14 | .56 | 74.8 | 8.5 | 12.6 |
| La. 15177S | 1.20 | .59 | 73.5 | 9.2 | 13.5 |
| PD 2137 | 1.20 | .61 | 72.9 | 8.4 | 14.1 |
| Pee Dee 0113 | 1.18 | .59 | 74.2 | 8.1 | 13.6 |
| Acala 1517-70 | 1.18 | .58 | 73.6 | 8.8 | 14.1 |

Table 57.--High-quality test: Yield, boll, and spinning data for St. Joseph, La.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 1477 a | 6.53 | 41.1 | 11.9 | 5.10 |
| Deltapine 16 | 1352 ab | 5.53 | 39.5 | 11.2 | 5.05 |
| McNair 3034 | 1320 abc | 6.51 | 41.0 | 11.7 | 4.45 |
| Coker 420-511 | 1282 abcd | 6.50 | 37.4 | 12.8 | 4.85 |
| Stoneville 1114 ... | 1242 bcde | 5.55 | 40.5 | 12.5 | 5.25 |
| Mo. 69-495 | 1233 bcde | 6.11 | 40.2 | 11.8 | 5.05 |
| Coker 420-6912 | 1231 bcde | 6.11 | 37.7 | 12.2 | 4.75 |
| Mo. 64-277 BR-1 ... | 1224 bcde | 6.27 | 40.1 | 12.2 | 4.60 |
| Bayou 73 | 1219 bcde | 5.72 | 38.4 | 12.1 | 4.75 |
| La. 15177S | 1208 bcde | 5.84 | 36.7 | 12.4 | 5.10 |
| Mo. 63-277K | 1102 cdef | 6.78 | 38.7 | 12.5 | 4.45 |
| Stoneville 537 | 1060 defg | 5.82 | 39.1 | 13.5 | 5.10 |
| Coker 310 | 1045 efg | 6.08 | 39.0 | 12.5 | 4.80 |
| Vail 7 | 1044 efg | 6.17 | 38.3 | 12.3 | 5.15 |
| PD 2173 | 1042 efg | 5.50 | 36.6 | 11.7 | 4.65 |
| Mo. 63-277 BR-2 ... | 1018 efg | 6.43 | 39.0 | 12.6 | 4.65 |
| PD 2292 | 963 fg | 5.59 | 39.9 | 12.2 | 5.00 |
| Acala 1517-70 | 907 fg | 6.45 | 37.4 | 13.8 | 4.85 |
| PD 2137 | 890 fg | 5.34 | 40.3 | 14.1 | 5.30 |
| Pee Dee 0113 | 832 g | 5.78 | 38.1 | 12.7 | 4.85 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.16 | 0.55 | 75.6 | 7.5 | 12.8 |
| Deltapine 16 | 1.18 | .54 | 78.0 | 7.0 | 12.1 |
| McNair 3034 | 1.17 | .55 | 78.7 | 7.9 | 12.7 |
| Coker 420-511 | 1.23 | .59 | 75.5 | 7.6 | 13.9 |
| Stoneville 1114 ... | 1.18 | .58 | 75.4 | 7.5 | 13.9 |
| Mo. 69-495 | 1.12 | .55 | 77.9 | 7.8 | 12.0 |
| Coker 420-6912 | 1.24 | .59 | 76.6 | 7.6 | 13.7 |
| Mo. 63-277 BR-1 ... | 1.19 | .59 | 77.2 | 8.0 | 13.7 |
| Bayou 73 | 1.17 | .56 | 75.9 | 7.6 | 13.0 |
| La. 15177S | 1.22 | .56 | 76.6 | 8.4 | 13.2 |
| Mo. 63-277K | 1.20 | .58 | 76.7 | 8.2 | 13.4 |
| Stoneville 537 | 1.17 | .57 | 78.4 | 7.7 | 13.2 |
| Coker 310 | 1.23 | .59 | 77.5 | 7.7 | 13.4 |
| Vail 7 | 1.16 | .55 | 77.9 | 7.6 | 11.1 |
| PD 2173 | 1.21 | .60 | 74.0 | 7.0 | 15.2 |
| Mo. 63-277 BR-2 ... | 1.16 | .57 | 77.6 | 7.4 | 13.7 |
| PD 2292 | 1.17 | .55 | 75.6 | 7.4 | 14.2 |
| Acala 1517-70 | 1.19 | .58 | 77.0 | 7.9 | 14.8 |
| PD 2137 | 1.22 | .62 | 72.9 | 7.4 | 14.7 |
| Pee Dee 0113 | 1.21 | .60 | 78.5 | 8.0 | 14.4 |

Table 58.--High-quality test: Yield, boll, and spinning data for Portageville, Mo.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Mo. 69-495 | 1198 a | 6.15 | 41.0 | 11.8 | 4.20 |
| Mo. 63-277 BR-2 ... | 1175 a | 7.20 | 38.5 | 12.6 | 4.35 |
| Mo. 63-277 BR-1 ... | 1175 a | 6.50 | 38.7 | 11.9 | 4.05 |
| Stoneville 1114 ... | 1137 a | 6.50 | 38.7 | 13.0 | 4.95 |
| McNair 3035 | 1104 ab | 6.55 | 35.7 | 11.9 | 4.80 |
| Mo. 63-277K | 990 bc | 7.40 | 37.4 | 13.6 | 4.10 |
| McNair 3034 | 984 bc | 6.85 | 38.5 | 12.0 | 4.85 |
| Coker 310 | 960 c | 6.50 | 36.2 | 12.3 | 4.55 |
| Coker 420-511 | 956 c | 6.90 | 34.6 | 12.9 | 4.75 |
| Coker 420-6912 | 909 cd | 6.60 | 35.2 | 12.1 | 4.65 |
| Stoneville 537 | 905 cd | 6.50 | 34.1 | 14.9 | 5.05 |
| Acala 1517-70 | 904 cd | 7.10 | 35.1 | 13.8 | 4.45 |
| La. 15177S | 828 de | 6.50 | 34.0 | 13.3 | 4.60 |
| Bayou 73 | 795 def | 6.70 | 35.8 | 12.2 | 4.30 |
| Pee Dee 0113 | 746 ef | 6.40 | 34.1 | 12.5 | 4.95 |
| PD 2292 | 736 efg | 6.30 | 34.5 | 12.9 | 4.90 |
| Deltapine 16 | 683 fg | 6.90 | 34.2 | 12.7 | 4.70 |
| PD 2173 | 621 gh | 6.25 | 35.3 | 12.0 | 4.80 |
| PD 2137 | 542 h | 6.05 | 34.5 | 13.6 | 5.00 |
| Vail 7 | --- | 6.66 | 34.7 | 12.7 | 4.55 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| Mo. 69-495 | 1.18 | 0.54 | 71.1 | 7.5 | 13.0 |
| Mo. 63-277 BR-2 ... | 1.19 | .55 | 69.9 | 7.4 | 13.6 |
| Mo. 63-277 BR-1 ... | 1.21 | .55 | 69.9 | 7.5 | 13.6 |
| Stoneville 1114 ... | 1.19 | .55 | 67.4 | 7.2 | 13.6 |
| McNair 3035 | 1.15 | .53 | 67.5 | 6.6 | 13.1 |
| Mo. 63-277K | 1.20 | .55 | 69.9 | 7.7 | 13.5 |
| McNair 3034 | 1.16 | .53 | 68.7 | 7.2 | 12.3 |
| Coker 310 | 1.22 | .54 | 68.1 | 7.0 | 13.3 |
| Coker 420-511 | 1.22 | .56 | 70.9 | 7.7 | 14.0 |
| Coker 420-6912 | 1.21 | .56 | 71.4 | 8.3 | 13.2 |
| Stoneville 537 | 1.21 | .57 | 69.0 | 7.2 | 13.5 |
| Acala 1517-70 | 1.20 | .56 | 69.4 | 7.7 | 14.8 |
| La. 15177S | 1.25 | .58 | 70.2 | 8.1 | 13.8 |
| Bayou 73 | 1.17 | .54 | 67.2 | 6.7 | 12.8 |
| Pee Dee 0113 | 1.21 | .57 | 68.3 | 7.2 | 14.3 |
| PD 2292 | 1.22 | .57 | 67.3 | 7.4 | 14.3 |
| Deltapine 16 | 1.19 | .55 | 70.4 | 7.7 | 12.5 |
| PD 2173 | 1.21 | .55 | 67.3 | 7.1 | 15.4 |
| PD 2137 | 1.24 | .57 | 65.9 | 7.2 | 14.5 |
| Vail 7 | 1.18 | .52 | 68.9 | 6.9 | 11.8 |

Table 59.--High-quality test: Yield, boll, and spinning data for Florence, S.C.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 855 a | 6.50 | 39.0 | 11.0 | 5.20 |
| McNair 3034 | 802 ab | 6.92 | 41.0 | 11.1 | 5.15 |
| Coker 310 | 764 bc | 6.66 | 39.9 | 11.0 | 5.30 |
| Coker 420-511 | 743 bcd | 6.71 | 37.0 | 11.9 | 5.35 |
| PD 2292 | 735 bcd | 6.08 | 39.6 | 10.9 | 5.30 |
| Stoneville 1114 ... | 724 cde | 6.61 | 39.6 | 11.5 | 5.35 |
| Deltapine 16 | 708 cdef | 6.60 | 40.1 | 10.6 | 5.50 |
| Stoneville 537 | 706 cdef | 6.57 | 38.3 | 13.0 | 5.60 |
| Pee Dee 0113 | 698 cdefg | 6.24 | 37.6 | 10.6 | 5.05 |
| Mo. 64-277K | 698 cdefg | 7.37 | 38.0 | 12.6 | 4.95 |
| Vail 7 | 697 cdefg | 6.33 | 39.4 | 11.2 | 5.45 |
| PD 2173 | 689 cdefg | 6.39 | 40.8 | 10.7 | 5.10 |
| Coker 420-6912 | 684 cdefg | 6.38 | 38.1 | 11.0 | 5.10 |
| Mo. 63-277 BR-2 ... | 674 defg | 6.89 | 39.3 | 11.5 | 5.10 |
| PD 2137 | 671 defg | 5.77 | 41.3 | 11.2 | 5.70 |
| Bayou 73 | 641 efg | 6.35 | 37.6 | 11.3 | 5.05 |
| Mo. 63-277 BR-1 ... | 637 fg | 6.63 | 39.7 | 11.5 | 4.95 |
| Mo. 69-495 | 636 fg | 6.44 | 38.8 | 11.0 | 5.10 |
| La. 15177S | 622 gh | 6.44 | 38.9 | 11.2 | 5.35 |
| Acala 1517-70 | 553 h | 6.88 | 34.6 | 12.4 | 4.85 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|------------------|----------------------------|------------------------------|
| | 2.5% | 50% | \overline{R}_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.13 | 0.57 | 77.7 | 8.8 | 12.5 |
| McNair 3034 | 1.20 | .60 | 77.5 | 9.3 | 12.8 |
| Coker 310 | 1.22 | .58 | 75.9 | 9.3 | 12.8 |
| Coker 420-511 | 1.25 | .62 | 74.7 | 8.4 | 13.3 |
| PD 2292 | 1.20 | .60 | 76.3 | 10.2 | 14.7 |
| Stoneville 1114 ... | 1.19 | .62 | 76.5 | 9.0 | 13.1 |
| Deltapine 16 | 1.16 | .57 | 77.8 | 8.4 | 11.5 |
| Stoneville 537 | 1.21 | .63 | 77.1 | 9.3 | 12.6 |
| Pee Dee 0113 | 1.22 | .62 | 77.6 | 9.4 | 13.6 |
| Mo. 63-277K | 1.22 | .62 | 75.4 | 10.7 | 13.8 |
| Vail 7 | 1.18 | .57 | 77.6 | 9.6 | 12.5 |
| PD 2173 | 1.22 | .61 | 74.9 | 9.4 | 14.2 |
| Coker 420-6912 | 1.23 | .62 | 76.1 | 9.3 | 14.2 |
| Mo. 63-277 BR-2 ... | 1.19 | .62 | 76.1 | 9.1 | 14.1 |
| PD 2137 | 1.21 | .62 | 75.1 | 9.4 | 15.0 |
| Bayou 73 | 1.19 | .59 | 76.5 | 9.0 | 11.8 |
| Mo. 63-277 BR-1 ... | 1.22 | .62 | 76.4 | 9.6 | 14.0 |
| Mo. 69-495 | 1.20 | .63 | 76.1 | 9.6 | 12.3 |
| La. 15177S | 1.22 | .61 | 74.9 | 10.0 | 13.7 |
| Acala 1517-70 | 1.19 | .60 | 76.1 | 10.2 | 14.6 |

Table 60.--High-quality test: Yield, boll, and spinning data for Jackson, Tenn.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 844 a | 6.12 | 38.7 | 10.9 | 5.20 |
| Vail 7 | 776 b | 6.15 | 38.1 | 11.6 | 5.30 |
| Deltapine 16 | 756 b | 6.32 | 36.2 | 12.0 | 5.10 |
| McNair 3034 | 734 bc | 6.10 | 39.2 | 11.0 | 5.00 |
| Stoneville 1114 ... | 720 bcd | 6.22 | 39.6 | 12.1 | 5.15 |
| Stoneville 537 | 706 bcd | 6.05 | 37.1 | 12.4 | 4.95 |
| Coker 420-511 | 705 bcd | 6.15 | 35.3 | 12.2 | 4.85 |
| Coker 420-6912 | 666 cde | 6.35 | 36.1 | 11.5 | 4.80 |
| Mo. 69-495 | 661 cde | 6.47 | 37.7 | 11.8 | 5.00 |
| PD 2137 | 665 cde | 5.21 | 37.2 | 12.4 | 5.00 |
| Coker 310 | 649 cde | 5.87 | 36.9 | 11.5 | 4.60 |
| La. 15177S | 643 de | 5.72 | 36.5 | 10.8 | 5.15 |
| Mo. 63-277 BR-1 ... | 643 de | 6.47 | 37.3 | 12.5 | 4.90 |
| PD 2292 | 642 de | 5.77 | 36.3 | 12.5 | 5.00 |
| PD 2173 | 639 de | 6.00 | 39.9 | 11.0 | 5.00 |
| Mo. 63-277K | 636 def | 6.98 | 36.5 | 12.4 | 4.45 |
| Pee Dee 0113 | 609 efg | 6.02 | 35.1 | 12.3 | 4.60 |
| Mo. 63-277 BR-2 ... | 603 efg | 6.42 | 38.0 | 11.5 | 4.80 |
| Acala 1517-70 | 555 fg | 6.67 | 35.5 | 12.8 | 4.70 |
| Bayou 73 | 540 g | 6.00 | 37.4 | 11.0 | 5.00 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.11 | 0.51 | 76.3 | 9.3 | 12.0 |
| Vail 7 | 1.14 | .52 | 75.2 | 8.7 | 11.6 |
| Deltapine 16 | 1.19 | .56 | 75.9 | 9.3 | 12.4 |
| McNair 3034 | 1.19 | .57 | 76.2 | 9.7 | 13.0 |
| Stoneville 1114 ... | 1.21 | .57 | 76.0 | 8.9 | 14.1 |
| Stoneville 537 | 1.23 | .60 | 77.6 | 8.2 | 14.3 |
| Coker 420-511 | 1.25 | .59 | 75.8 | 10.1 | 14.2 |
| Coker 420-6912 | 1.19 | .53 | 75.3 | 8.3 | 13.7 |
| Mo. 69-495 | 1.15 | .55 | 76.3 | 9.2 | 12.8 |
| PD 2137 | 1.20 | .56 | 75.7 | 8.6 | 14.7 |
| Coker 310 | 1.16 | .49 | 75.4 | 8.9 | 13.3 |
| La. 15177S | 1.14 | .51 | 72.1 | 9.0 | 12.7 |
| Mo. 63-277 BR-1 ... | 1.20 | .56 | 74.7 | 9.9 | 13.4 |
| PD 2292 | 1.22 | .57 | 75.7 | 8.4 | 13.4 |
| PD 2173 | 1.16 | .53 | 72.5 | 8.2 | 14.0 |
| Mo. 63-277K | 1.17 | .54 | 74.7 | 9.9 | 13.9 |
| Pee Dee 0113 | 1.21 | .58 | 78.9 | 8.4 | 15.1 |
| Mo. 63-277 BR-2 ... | 1.14 | .54 | 72.9 | 9.4 | 12.9 |
| Acala 1517-70 | 1.12 | .50 | 74.6 | 9.3 | 15.8 |
| Bayou 73 | 1.16 | .56 | 75.1 | 8.7 | 12.9 |

Table 61.--High-quality test: Yield, boll, and spinning data for Tifton, Ga.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Stoneville 537 | 844 a | 6.10 | 38.1 | 12.7 | 5.15 |
| PD 2173 | 838 a | 5.37 | 41.5 | 10.4 | 5.00 |
| Coker 310 | 825 a | 5.85 | 39.3 | 11.7 | 5.10 |
| La. 15177S | 778 a | 5.74 | 37.4 | 11.6 | 5.25 |
| Deltapine 16 | 762 a | 6.63 | 37.4 | 11.2 | 5.15 |
| Vail 7 | 754 a | 6.09 | 39.6 | 11.0 | 5.30 |
| Coker 420-6912 | 735 a | 6.02 | 36.7 | 12.0 | 4.85 |
| McNair 3034 | 732 a | 6.23 | 38.9 | 11.1 | 4.55 |
| Mo. 63-277 BR-2 ... | 727 a | 6.62 | 37.9 | 11.8 | 4.85 |
| Stoneville 1114 ... | 720 a | 6.06 | 40.1 | 11.3 | 5.10 |
| McNair 3035 | 720 a | 6.11 | 39.5 | 10.8 | 5.00 |
| Bayou 73 | 694 a | 5.96 | 37.9 | 11.3 | 4.85 |
| PD 2292 | 693 a | 6.02 | 40.1 | 11.2 | 4.95 |
| Mo. 63-277K | 693 a | 6.63 | 36.1 | 13.1 | 4.45 |
| Mo. 69-495 | 682 a | 5.87 | 37.6 | 11.8 | 4.75 |
| PD 2137 | 672 a | 4.87 | 41.3 | 11.6 | 5.50 |
| Mo. 63-277 BR-1 ... | 663 a | 5.72 | 38.6 | 12.4 | 4.74 |
| Pee Dee 0113 | 648 a | 5.52 | 38.7 | 11.5 | 4.90 |
| Coker 420-511 | 624 a | 5.85 | 35.6 | 12.1 | 4.90 |
| Acala 1517-70 | 384 b | 5.50 | 35.5 | 11.3 | 4.30 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Stoneville 537 | 1.18 | 0.56 | 73.9 | 8.2 | 13.5 |
| PD 2173 | 1.16 | .54 | 70.7 | 9.2 | 14.5 |
| Coker 310 | 1.20 | .56 | 71.2 | 9.3 | 12.9 |
| La. 15177S | 1.22 | .59 | 72.2 | 9.8 | 14.0 |
| Deltapine 16 | 1.21 | .58 | 74.1 | 8.1 | 12.0 |
| Vail 7 | 1.17 | .57 | 71.7 | 9.0 | 11.8 |
| Coker 420-6912 | 1.23 | .59 | 72.1 | 8.4 | 14.3 |
| McNair 3034 | 1.21 | .56 | 73.2 | 8.2 | 13.7 |
| Mo. 63-277 BR-2 ... | 1.21 | .60 | 71.0 | 8.7 | 13.3 |
| Stoneville 1114 ... | 1.20 | .59 | 71.7 | 8.0 | 14.2 |
| McNair 3035 | 1.17 | .55 | 72.9 | 7.9 | 13.4 |
| Bayou 73 | 1.14 | .55 | 73.5 | 9.3 | 12.5 |
| PD 2292 | 1.17 | .56 | 71.7 | 9.2 | 14.8 |
| Mo. 63-277K | 1.20 | .57 | 71.2 | 9.7 | 13.7 |
| Mo. 69-495 | 1.18 | .56 | 69.0 | 9.1 | 13.3 |
| PD 2137 | 1.21 | .62 | 71.6 | 8.7 | 14.4 |
| Mo. 63-277 BR-1 ... | 1.22 | .59 | 70.8 | 9.4 | 14.0 |
| Pee Dee 0113 | 1.16 | .58 | 72.3 | 8.2 | 14.3 |
| Coker 420-511 | 1.23 | .60 | 71.5 | 8.3 | 13.8 |
| Acala 1517-70 | 1.18 | .56 | 71.7 | 9.4 | 14.9 |

Table 62.--High-quality test: Yield, boll, and spinning data for Belle Mina, Ala.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Vail 7 | 818 a | 6.03 | 40.3 | 10.7 | 5.10 |
| McNair 3035 | 733 ab | 6.20 | 43.0 | 10.6 | 5.30 |
| PD 2292 | 614 bc | 5.62 | 42.3 | 10.8 | 5.05 |
| Deltapine 16 | 604 bcd | 6.18 | 40.3 | 10.6 | 5.05 |
| Coker 310 | 599 bcd | 5.97 | 42.9 | 10.5 | 5.25 |
| McNair 3034 | 552 cde | 6.93 | 43.4 | 11.1 | 5.10 |
| Mo. 63-277 BR-1 ... | 519 cdef | 6.79 | 41.5 | 11.4 | 4.70 |
| Coker 420-511 | 504 cdef | 6.52 | 41.2 | 11.5 | 5.15 |
| PD 2173 | 501 cdef | 6.10 | 42.3 | 10.9 | 5.05 |
| Coker 429-6912 | 500 cdef | 6.06 | 41.3 | 11.0 | 5.05 |
| La. 15177S | 488 cdefg | 5.90 | 41.2 | 11.2 | 5.25 |
| Mo. 69-495 | 457 defgh | 5.98 | 42.5 | 10.8 | 5.00 |
| Mo. 63-277K | 456 defgh | 7.08 | 40.5 | 12.1 | 4.70 |
| Bayou 73 | 419 efghi | 6.37 | 40.3 | 11.4 | 4.90 |
| Mo. 63-277 BR-2 ... | 409 efghi | 6.48 | 40.7 | 11.8 | 5.20 |
| Stoneville 1114 ... | 396 fghi | 6.39 | 41.9 | 11.7 | 5.50 |
| Stoneville 537 | 343 ghi | 6.05 | 41.3 | 12.6 | 5.50 |
| PD 2137 | 337 ghi | 5.47 | 43.6 | 11.9 | 5.60 |
| Pee Dee 0113 | 328 hi | 5.81 | 41.3 | 11.3 | 5.05 |
| Acala 1517-70 | 285 i | 7.44 | 38.8 | 12.9 | 4.95 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Vail 7 | 1.10 | 0.53 | 75.2 | 7.7 | 10.5 |
| McNair 3035 | 1.07 | .53 | 72.5 | 7.1 | 11.4 |
| PD 2292 | 1.11 | .54 | 74.7 | 7.8 | 12.9 |
| Deltapine 16 | 1.13 | .53 | 76.1 | 7.7 | 11.7 |
| Coker 310 | 1.13 | .55 | 72.8 | 8.0 | 11.6 |
| McNair 3034 | 1.11 | .55 | 75.1 | 7.9 | 11.3 |
| Mo. 63-277 BR-1 ... | 1.16 | .57 | 74.1 | 8.2 | 12.2 |
| Coker 420-511 | 1.13 | .56 | 73.4 | 8.2 | 12.4 |
| PD 2173 | 1.11 | .55 | 73.5 | 7.9 | 12.4 |
| Coker 420-6912 | 1.15 | .56 | 73.4 | 7.8 | 13.0 |
| La. 15177S | 1.14 | .56 | 74.0 | 8.6 | 12.4 |
| Mo. 69-495 | 1.11 | .54 | 73.9 | 7.8 | 12.7 |
| Mo. 63-277K | 1.14 | .55 | 73.6 | 8.6 | 12.2 |
| Bayou 73 | 1.09 | .54 | 74.9 | 8.1 | 12.1 |
| Mo. 63-277 BR-2 ... | 1.12 | .56 | 74.6 | 8.1 | 11.9 |
| Stoneville 1114 ... | 1.14 | .58 | 73.8 | 6.8 | 13.0 |
| Stoneville 537 | 1.12 | .54 | 74.9 | 7.9 | 11.8 |
| PD 2137 | 1.17 | .60 | 73.3 | 7.8 | 13.6 |
| Pee Dee 0113 | 1.12 | .55 | 73.4 | 7.7 | 12.7 |
| Acala 1517-70 | 1.13 | .56 | 73.7 | 8.0 | 13.4 |

Table 63.--High-quality test: Yield, boll, and spinning data for Stoneville, Miss.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3034 | 803 a | 5.57 | 38.6 | 9.9 | 4.20 |
| Deltapine 16 | 782 ab | 5.31 | 36.6 | 10.4 | 4.40 |
| McNair 3035 | 779 ab | 5.42 | 36.9 | 10.5 | 4.40 |
| Vail 7 | 692 abc | 5.18 | 47.0 | 10.2 | 4.80 |
| Acala 1517-70 | 687 abc | 5.88 | 35.0 | 12.1 | 4.25 |
| Coker 420-511 | 675 abc | 5.63 | 33.5 | 11.5 | 4.20 |
| Coker 310 | 672 abcd | 5.20 | 37.3 | 10.0 | 4.10 |
| Bayou 73 | 659 bcd | 4.81 | 36.0 | 9.5 | 3.95 |
| La. 15177S | 646 bcd | 4.95 | 34.9 | 10.6 | 4.45 |
| Mo. 69-495 | 642 bcd | 5.81 | 36.8 | 10.4 | 4.20 |
| Coker 420-6912 | 632 cd | 5.17 | 33.6 | 10.6 | 4.00 |
| Mo. 63-277K | 627 cd | 6.27 | 34.6 | 11.8 | 3.90 |
| Stoneville 537 | 625 cd | 4.76 | 37.6 | 10.5 | 4.05 |
| Stoneville 1114 ... | 598 cd | 5.05 | 38.4 | 10.3 | 4.35 |
| PD 2173 | 581 cd | 4.79 | 37.1 | 9.7 | 4.20 |
| Mo. 63-277 BR-2 ... | 566 cd | 5.79 | 35.5 | 10.9 | 4.05 |
| Mo. 63-277 BR-1 ... | 558 cd | 5.99 | 35.7 | 11.6 | 4.00 |
| PD 2137 | 556 cd | 4.47 | 38.7 | 11.0 | 4.80 |
| Pee Dee 0113 | 528 d | 4.92 | 37.3 | 10.4 | 4.20 |
| PD 2292 | 528 d | 4.78 | 36.4 | 10.1 | 4.25 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3034 | 1.18 | 0.53 | 79.3 | 8.2 | 14.6 |
| Deltapine 16 | 1.18 | .54 | 78.1 | 8.0 | 14.0 |
| McNair 3035 | 1.16 | .54 | 78.5 | 8.5 | 14.8 |
| Vail 7 | 1.16 | .53 | 78.2 | 8.2 | 13.1 |
| Acala 1517-70 | 1.17 | .55 | 76.6 | 9.1 | 16.8 |
| Coker 420-511 | 1.22 | .55 | 76.4 | 8.3 | 15.7 |
| Coker 310 | 1.21 | .54 | 76.8 | 8.1 | 14.6 |
| Bayou 73 | 1.17 | .54 | 77.8 | 8.2 | 15.3 |
| La. 15177S | 1.21 | .56 | 76.4 | 9.4 | 15.2 |
| Mo. 69-495 | 1.19 | .58 | 78.0 | 8.3 | 14.7 |
| Coker 420-6912 | 1.22 | .56 | 77.0 | 8.3 | 15.7 |
| Mo. 63-277K | 1.24 | .57 | 77.3 | 9.6 | 15.7 |
| Stoneville 537 | 1.15 | .54 | 77.4 | 8.0 | 14.2 |
| Stoneville 1114 ... | 1.17 | .55 | 77.5 | 8.2 | 15.8 |
| PD 2173 | 1.20 | .56 | 76.9 | 9.3 | 16.2 |
| Mo. 63-277 BR-2 ... | 1.20 | .56 | 77.8 | 9.1 | 16.4 |
| Mo. 63-277 BR-1 ... | 1.26 | .60 | 77.0 | 9.6 | 15.8 |
| PD 2137 | 1.18 | .56 | 76.0 | 8.5 | 15.6 |
| Pee Dee 0113 | 1.17 | .54 | 78.5 | 8.2 | 15.7 |
| PD 2292 | 1.17 | .54 | 77.9 | 8.2 | 15.7 |

Table 64.--High-quality test: Yield, boll, and spinning data for Rocky Mount, N.C.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 771 a | 6.64 | 40.5 | 11.0 | 5.05 |
| Mo. 69-495 | 760 a | 6.09 | 40.7 | 10.9 | 4.90 |
| Mo. 63-277 BR-1 ... | 723 a | 6.56 | 40.9 | 11.5 | 4.60 |
| McNair 3034 | 653 ab | 7.47 | 41.1 | 12.2 | 5.00 |
| Mo. 63-277K | 649 ab | 7.25 | 40.4 | 12.4 | 4.90 |
| Deltapine 16 | 577 bc | 6.95 | 48.3 | 12.0 | 5.10 |
| Vail 7 | 561 bcd | 6.44 | 38.6 | 11.6 | 5.25 |
| PD 2173 | 560 bcd | 6.27 | 40.3 | 11.7 | 4.75 |
| Coker 310 | 536 bcd | 6.61 | 40.2 | 11.5 | 5.10 |
| Bayou 73 | 533 bcd | 6.87 | 38.8 | 12.3 | 5.00 |
| Stoneville 537 | 524 bcd | 6.47 | 37.7 | 13.7 | 5.45 |
| Mo. 63-277 BR-2 ... | 523 bcd | 7.11 | 40.2 | 11.7 | 5.00 |
| Stoneville 1114 ... | 523 bcd | 6.76 | 40.0 | 12.7 | 5.30 |
| PD 2292 | 511 cde | 5.71 | 39.3 | 11.8 | 5.00 |
| Coker 420-511 | 459 cdef | 6.82 | 38.1 | 12.6 | 5.10 |
| PD 2137 | 436 defg | 5.19 | 38.8 | 13.6 | 5.30 |
| Pee Dee 0113 | 432 defg | 6.21 | 38.5 | 12.0 | 4.95 |
| Coker 420-6912 | 387 efg | 6.52 | 38.0 | 12.3 | 4.95 |
| La. 15177S | 350 fg | 6.67 | 36.6 | 12.7 | 5.20 |
| Acala 1517-70 | 310 g | 6.84 | 37.4 | 13.5 | 4.80 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.15 | 0.56 | 73.7 | 7.0 | 13.1 |
| Mo. 69-495 | 1.17 | .58 | 75.0 | 7.9 | 13.3 |
| Mo. 63-277 BR-1 ... | 1.17 | .56 | 76.0 | 8.0 | 14.3 |
| McNair 3034 | 1.16 | .55 | 76.4 | 8.2 | 13.8 |
| Mo. 63-277K | 1.20 | .58 | 73.8 | 8.4 | 13.3 |
| Deltapine 16 | 1.16 | .52 | 77.0 | 7.9 | 12.2 |
| Vail 7 | 1.15 | .54 | 74.3 | 7.5 | 12.2 |
| PD 2173 | 1.23 | .61 | 74.3 | 7.5 | 15.2 |
| Coker 310 | 1.22 | .57 | 73.3 | 7.9 | 13.5 |
| Bayou 73 | 1.13 | .55 | 74.3 | 7.6 | 14.2 |
| Stoneville 537 | 1.21 | .61 | 74.2 | 7.5 | 12.1 |
| Mo. 63-277 BR-2 ... | 1.19 | .60 | 74.6 | 7.9 | 13.5 |
| Stoneville 1114 ... | 1.17 | .60 | 74.0 | 7.6 | 13.9 |
| PD 2292 | 1.21 | .59 | 73.4 | 7.5 | 13.8 |
| Coker 420-511 | 1.24 | .62 | 73.9 | 8.0 | 14.0 |
| PD 2137 | 1.23 | .59 | 71.5 | 7.7 | 13.6 |
| Pee Dee 0113 | 1.22 | .60 | 73.5 | 7.3 | 14.0 |
| Coker 420-6912 | 1.22 | .60 | 74.7 | 7.7 | 13.3 |
| La. 15177S | 1.21 | .59 | 73.0 | 8.3 | 13.8 |
| Acala 1517-70 | 1.21 | .62 | 73.0 | 7.9 | 13.8 |

Table 65.--High-quality test: Yield, boll, and spinning data for College Station, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| McNair 3035 | 757 a | 6.27 | 37.7 | 10.8 | 5.30 |
| Coker 420-511 | 728 ab | 6.60 | 34.1 | 11.9 | 5.15 |
| Bayou 73 | 723 ab | 6.36 | 37.5 | 10.9 | 5.45 |
| Mo. 63-277 BR-1 ... | 705 abc | 7.09 | 38.5 | 11.5 | 4.80 |
| Deltapine 16 | 698 abcd | 6.27 | 37.3 | 10.8 | 5.50 |
| Mo. 63-277 BR-2 ... | 693 abcd | 6.86 | 37.8 | 11.7 | 5.10 |
| Acala 1517-70 | 657 abcd | 6.59 | 35.6 | 12.3 | 5.30 |
| Coker 310 | 645 abcd | 6.64 | 36.7 | 10.9 | 5.10 |
| Mo. 69-495 | 643 abcd | 5.88 | 36.7 | 10.9 | 5.35 |
| Coker 420-6912 | 641 abcd | 6.09 | 35.3 | 11.1 | 5.00 |
| PD 2173 | 635 abcd | 5.95 | 39.4 | 11.0 | 5.35 |
| Stoneville 1114 ... | 631 bcd | 6.23 | 37.6 | 11.1 | 5.55 |
| Mo. 63-277K | 627 bcd | 7.15 | 36.8 | 12.2 | 4.75 |
| La. 15177S | 623 bcd | 6.38 | 37.1 | 11.0 | 5.50 |
| Vail 7 | 623 bcd | 6.35 | 36.5 | 11.5 | 5.30 |
| Stoneville 537 | 603 bcde | 6.28 | 36.2 | 12.2 | 5.55 |
| Pee Dee 0113 | 587 cde | 5.92 | 36.1 | 10.9 | 5.35 |
| PD 2137 | 578 de | 5.18 | 38.4 | 11.6 | 5.65 |
| PD 2292 | 499 e | 5.84 | 38.3 | 11.0 | 5.50 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| McNair 3035 | 1.10 | 0.57 | 69.8 | 7.5 | 12.4 |
| Coker 420-511 | 1.20 | .61 | 71.8 | 7.8 | 13.9 |
| Bayou 73 | 1.13 | .58 | 70.6 | 7.2 | 13.0 |
| Mo. 63-277 BR-1 ... | 1.19 | .57 | 69.8 | 8.1 | 14.0 |
| Deltapine 16 | 1.13 | .55 | 74.9 | 7.8 | 11.1 |
| Mo. 63-277 BR-2 ... | 1.10 | .54 | 70.2 | 8.1 | 13.4 |
| Acala 1517-70 | 1.15 | .57 | 73.2 | 7.8 | 13.7 |
| Coker 310 | 1.15 | .56 | 68.8 | 7.6 | 12.8 |
| Mo. 69-495 | 1.15 | .58 | 71.1 | 8.8 | 12.3 |
| Coker 420-6912 | 1.15 | .58 | 72.5 | 7.6 | 13.8 |
| PD 2173 | 1.10 | .52 | 68.7 | 7.8 | 14.6 |
| Stoneville 1114 ... | 1.07 | .53 | 69.2 | 7.7 | 13.6 |
| Mo. 63-277K | 1.14 | .56 | 68.8 | 9.1 | 12.8 |
| La. 15177S | 1.14 | .56 | 71.2 | 8.8 | 13.0 |
| Vail 7 | 1.09 | .52 | 69.8 | 7.8 | 13.5 |
| Stoneville 537 | 1.06 | .54 | 71.5 | 7.5 | 12.1 |
| Pee Dee 0113 | 1.05 | .53 | 70.7 | 8.3 | 12.7 |
| PD 2137 | 1.12 | .56 | 69.8 | 8.6 | 14.0 |
| PD 2292 | 1.10 | .55 | 69.8 | 8.1 | 13.5 |

Table 66.--High-quality test: Yield, boll, and spinning data for Rohwer, Ark.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|---------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Vail 7 | 452 a | 4.79 | 36.7 | --- | 4.95 |
| Stoneville 537 | 425 ab | 4.92 | 37.7 | --- | 5.25 |
| Coker 420-511 | 424 ab | 4.93 | 36.0 | --- | 4.70 |
| McNair 3035 | 406 abc | 4.59 | 37.5 | --- | 5.00 |
| Mo. 63-277K | 403 abc | 4.39 | 36.2 | --- | 3.65 |
| La. 15177S | 400 bc | 4.71 | 36.2 | --- | 4.80 |
| Deltapine 16 | 398 bc | 4.55 | 37.0 | --- | 4.90 |
| Coker 420-6912 | 396 bc | 4.86 | 37.0 | --- | 4.45 |
| McNair 3034 | 393 bcd | 4.70 | 38.2 | --- | 4.55 |
| Coker 310 | 389 bcde | 5.08 | 37.5 | --- | 4.75 |
| Mo. 69-495 | 387 bcde | 5.26 | 37.7 | --- | 4.65 |
| Stoneville 1114 ... | 383 bcde | 4.61 | 38.2 | --- | 4.90 |
| Mo. 63-277 BR-2 ... | 379 bcde | 4.49 | 37.5 | --- | 4.45 |
| Mo. 63-277 BR-1 ... | 367 cde | 5.23 | 37.2 | --- | 4.20 |
| Acala 1517-70 | 365 cde | 4.88 | 36.7 | --- | 4.70 |
| PD 2292 | 357 cde | 4.13 | 37.7 | --- | 4.65 |
| PD 2173 | 342 de | 4.16 | 38.0 | --- | 4.55 |
| Pee Dee 0113 | 338 e | 4.53 | 37.2 | --- | 4.35 |
| Bayou 73 | 290 f | 4.77 | 37.5 | --- | 4.15 |
| PD 2137 | 257 f | 3.90 | 37.2 | --- | 5.40 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|---------------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Vail 7 | 1.13 | 0.51 | 79.4 | 8.2 | 12.8 |
| Stoneville 537 | 1.15 | .59 | 76.1 | 7.6 | 14.1 |
| Coker 420-511 | 1.20 | .57 | 76.4 | 8.1 | 15.0 |
| McNair 3035 | 1.12 | .56 | 77.7 | 8.9 | 14.0 |
| Mo. 63-277K | 1.21 | .59 | 76.6 | 8.5 | 14.8 |
| La. 15177S | 1.18 | .57 | 77.0 | 9.4 | 14.8 |
| Deltapine 16 | 1.15 | .55 | 79.4 | 7.9 | 13.7 |
| Coker 420-6912 | 1.21 | .59 | 76.0 | 7.9 | 14.9 |
| McNair 3034 | 1.14 | .54 | 78.0 | 7.8 | 13.4 |
| Coker 310 | 1.20 | .58 | 76.1 | 8.2 | 14.0 |
| Mo. 69-495 | 1.14 | .57 | 77.5 | 8.3 | 14.8 |
| Stoneville 1114 ... | 1.17 | .58 | 76.8 | 7.8 | 15.7 |
| Mo. 63-277 BR-2 ... | 1.14 | .55 | 77.3 | 7.8 | 15.1 |
| Mo. 63-277 BR-1 ... | 1.20 | .59 | 77.7 | 8.3 | 15.4 |
| Acala 1517-70 | 1.17 | .58 | 77.2 | 8.4 | 16.5 |
| PD 2292 | 1.17 | .58 | 76.1 | 8.1 | 15.5 |
| PD 2173 | 1.19 | .58 | 77.1 | 8.1 | 16.1 |
| Pee Dee 0113 | 1.17 | .57 | 76.3 | 8.1 | 15.8 |
| Bayou 73 | 1.16 | .57 | 77.8 | 7.8 | 15.1 |
| PD 2137 | 1.18 | .60 | 75.6 | 8.2 | 15.5 |

PIMA REGIONAL COTTON VARIETY TEST

Table 67.--Pima test: Yield, boll, and spinning data by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| P-34 | 928 a | 3.50 cd | 40.3 a | 12.6 a | 4.89 a |
| P-37 | 883 ab | 3.55 cd | 38.1 c | 12.0 c | 4.77 b |
| P-30 | 819 abc | 3.59 bc | 38.5 b | 11.9 c | 4.56 c |
| P-32 | 802 abcd | 3.46 d | 38.5 b | 10.5 e | 4.54 c |
| Pima S-5 | 793 bcd | 3.69 ab | 38.7 b | 12.1 c | 4.44 d |
| P-36 | 783 bcd | 3.69 ab | 38.1 c | 12.7 a | 4.60 c |
| P-38 | 767 bcd | 3.71 a | 37.6 d | 12.4 b | 4.29 e |
| 126-5 | 706 cd | 3.27 e | 37.1 e | 11.1 d | 4.59 c |
| Pima S-4 | 690 d | 3.78 a | 37.2 e | 12.1 c | 4.46 d |

| Variety | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------|----------------------|----------|----------------|---------------------|------------------------------|
| | 2.5% | 50% | R _d | Hunter's b value | |
| P-34 | 1.40 e | 0.72 bcd | 66.1 e | 11.9 a | 18.4 c |
| P-37 | 1.43 bc | .71 bcde | 66.5 e | 11.5 bc | 18.2 c |
| P-30 | 1.46 a | .73 ab | 67.2 d | 11.5 b | 17.9 d |
| P-32 | 1.35 f | .70 e | 70.1 b | 11.1 d | 19.0 b |
| Pima S-5 | 1.44 b | .73 ab | 68.9 c | 11.3 bcd | 17.6 e |
| P-36 | 1.43 bcd | .75 a | 70.2 b | 10.6 e | 19.5 a |
| P-38 | 1.46 a | .73 abc | 69.7 b | 11.1 cd | 17.3 f |
| 126-5 | 1.41 de | .71 cde | 71.1 a | 10.2 f | 17.6 e |
| Pima S-4 | 1.42 cde | .71 de | 68.6 c | 11.4 bcd | 17.4 ef |

Table 68.--Pima test: Yield, boll, and spinning data by test location

| Location | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| Phoenix, AZ | 1289 a | 3.57 de | 35.5 f | 12.4 a | 4.72 a |
| Marana (Clark), AZ . | 1045 b | 3.75 ab | 38.0 d | 11.9 b | 4.57 b |
| Safford (Curtis), AZ | 896 c | 3.62 cd | 39.0 b | 11.5 d | 4.68 a |
| Safford (Pace), AZ . | 863 cd | 3.77 a | 38.6 bc | 12.3 a | 4.53 bc |
| Safford (Sta.), AZ . | 849 de | 3.23 g | 38.7 bc | 12.0 b | 4.47 c |
| Marana (Sta.), AZ .. | 814 e | 3.41 f | 38.4 c | 11.9 bc | 4.48 c |
| Coolidge, AZ | 740 f | 3.23 g | 36.9 e | 11.6 d | 4.68 a |
| El Paso, TX | 553 g | 3.41 f | 39.4 a | 11.7 cd | 4.71 a |
| Las Cruces, NM | 526 g | 3.51 e | 38.8 b | 11.9 b | 4.38 d |
| Pecos, TX | 394 h | 3.56 de | 39.0 b | 12.0 b | 4.46 c |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------------|----------------------|---------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| Phoenix, AZ | 1.43 bcd | 0.72 bc | 66.8 f | 11.3 a | 18.1 bc |
| Marana (Clark), AZ . | 1.42 cde | .71 bc | 68.2 de | 11.2 ab | 18.2 bc |
| Safford (Curtis), AZ | 1.41 de | .72 bc | 70.2 a | 11.3 a | 18.1 bc |
| Safford (Pace), AZ . | 1.44 abc | .73 ab | 68.4 d | 11.4 a | 18.1 bc |
| Safford (Sta.), AZ . | 1.42 de | .71 bc | 68.6 cd | 11.5 a | 18.0 c |
| Marana (Sta.), AZ .. | 1.41 de | .70 c | 68.5 d | 11.4 a | 18.3 b |
| Coolidge, AZ | 1.41 e | .71 bc | 67.8 e | 11.3 a | 18.9 a |
| El Paso, TX | 1.41 e | .72 bc | 69.3 b | 11.0 b | 17.5 d |
| Las Cruces, NM | 1.44 ab | .74 a | 70.1 a | 10.4 c | 17.5 d |
| Pecos, TX | 1.45 a | .75 a | 69.3 bc | 10.9 b | 18.0 c |

Table 69.--Pima test: Combined yield, boll, and spinning data for Phoenix, Marana (Experimental farm and Clark farm), and Coolidge, Ariz., by cotton variety

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| P-34 | 1127 a | 3.47 | 39.4 | 12.5 | 4.86 |
| P-37 | 1073 ab | 3.50 | 36.9 | 12.0 | 4.78 |
| Pima S-5 | 1011 abc | 3.71 | 37.9 | 12.1 | 4.51 |
| P-30 | 999 abcd | 3.58 | 37.4 | 12.0 | 4.60 |
| P-32 | 983 abcde | 3.37 | 37.6 | 10.4 | 4.58 |
| P-36 | 976 bcde | 3.61 | 37.3 | 12.6 | 4.67 |
| Pima S-4 | 873 cde | 3.81 | 36.2 | 12.2 | 4.51 |
| 126-5 | 861 de | 3.27 | 35.9 | 11.2 | 4.68 |
| P-38 | 845 e | 3.70 | 36.4 | 12.6 | 4.36 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| P-34 | 1.39 | 0.71 | 64.8 | 12.0 | 18.8 |
| P-37 | 1.43 | .71 | 65.4 | 11.7 | 18.5 |
| Pima S-5 | 1.42 | .71 | 68.4 | 11.4 | 17.9 |
| P-30 | 1.48 | .73 | 65.8 | 11.7 | 18.2 |
| P-32 | 1.36 | .70 | 69.2 | 11.4 | 19.3 |
| P-36 | 1.41 | .73 | 69.7 | 10.7 | 19.6 |
| Pima S-4 | 1.41 | .70 | 67.8 | 11.5 | 17.5 |
| 126-5 | 1.40 | .71 | 70.4 | 10.1 | 18.1 |
| P-38 | 1.34 | .71 | 68.9 | 11.3 | 17.7 |

Table 70.--Pima test: Combined yield, boll, and spinning data for Safford (Station, Curtis, and Pace farms), Ariz.; El Paso and Pecos, Tex.; and Las Cruces, N. Mex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-34 | 796 a | 3.53 | 41.0 | 12.7 | 4.91 |
| P-37 | 756 ab | 3.58 | 38.8 | 11.9 | 4.76 |
| P-38 | 715 abc | 3.72 | 38.5 | 12.3 | 4.24 |
| P-30 | 699 abc | 3.60 | 39.2 | 11.9 | 4.54 |
| P-32 | 681 abcd | 3.51 | 39.2 | 10.5 | 4.51 |
| P-36 | 655 bcd | 3.75 | 38.6 | 12.8 | 4.55 |
| Pima S-5 | 648 bcd | 3.68 | 39.2 | 12.1 | 4.39 |
| 126-5 | 602 cd | 3.28 | 37.9 | 11.0 | 4.53 |
| Pima S-4 | 569 d | 3.76 | 37.8 | 12.0 | 4.43 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| P-34 | 1.40 | 0.73 | 67.0 | 11.9 | 18.1 |
| P-37 | 1.43 | .72 | 67.3 | 11.3 | 18.0 |
| P-38 | 1.47 | .74 | 70.3 | 11.0 | 17.0 |
| P-30 | 1.45 | .73 | 68.2 | 11.4 | 17.7 |
| P-32 | 1.35 | .70 | 70.6 | 10.9 | 18.8 |
| P-36 | 1.43 | .76 | 70.6 | 10.4 | 19.5 |
| Pima S-5 | 1.45 | .74 | 69.3 | 11.2 | 17.4 |
| 126-5 | 1.42 | .71 | 71.5 | 10.2 | 17.2 |
| Pima S-4 | 1.42 | .71 | 69.2 | 11.2 | 17.3 |

Table 71.--Pima test: Yield, boll, and spinning data for Phoenix, Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-34 | 1498 a | 3.39 | 37.9 | 12.9 | 4.80 |
| P-37 | 1407 ab | 3.43 | 35.4 | 12.2 | 4.85 |
| P-30 | 1365 ab | 3.64 | 34.8 | 12.9 | 4.60 |
| Pima S-5 | 1363 ab | 3.90 | 35.8 | 12.9 | 4.70 |
| P-36 | 1361 ab | 3.58 | 36.0 | 13.0 | 4.80 |
| P-32 | 1317 b | 3.34 | 36.0 | 10.8 | 4.70 |
| Pima S-4 | 1174 c | 3.84 | 34.6 | 12.8 | 4.70 |
| 126-5 | 1135 c | 3.35 | 34.2 | 11.8 | 4.85 |
| P-38 | 979 d | 3.68 | 34.6 | 13.1 | 4.55 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| | | | | | |
| P-34 | 1.40 | 0.71 | 64.9 | 12.1 | 18.8 |
| P-37 | 1.47 | .76 | 64.2 | 11.7 | 18.0 |
| P-30 | 1.53 | .75 | 64.4 | 11.6 | 18.1 |
| Pima S-5 | 1.41 | .73 | 67.0 | 11.5 | 17.4 |
| P-36 | 1.46 | .74 | 69.5 | 10.9 | 19.6 |
| P-32 | 1.40 | .73 | 68.0 | 11.4 | 18.9 |
| Pima S-4 | 1.39 | .69 | 66.7 | 11.3 | 17.4 |
| 126-5 | 1.39 | .72 | 69.4 | 10.2 | 17.8 |
| P-38 | 1.43 | .69 | 66.8 | 11.2 | 17.5 |

Table 72.--Pima test: Yield, boll, and spinning data for Marana (Clark farm), Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-34 | 1161 a | 3.65 | 40.1 | 12.5 | 5.00 |
| P-37 | 1159 a | 3.71 | 38.0 | 11.8 | 4.70 |
| Pima S-5 | 1139 ab | 3.80 | 38.9 | 12.1 | 4.45 |
| P-32 | 1057 bc | 3.52 | 38.5 | 10.1 | 4.45 |
| P-30 | 1054 bc | 3.84 | 38.0 | 11.9 | 4.60 |
| P-36 | 998 c | 3.82 | 38.0 | 12.6 | 4.60 |
| Pima S-4 | 972 cd | 4.08 | 36.9 | 12.4 | 4.50 |
| 126-5 | 970 cd | 3.41 | 37.2 | 11.1 | 4.55 |
| P-38 | 890 d | 3.99 | 36.7 | 13.3 | 4.35 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| P-34 | 1.42 | 0.73 | 65.5 | 12.0 | 18.3 |
| P-37 | 1.45 | .69 | 65.2 | 11.8 | 18.3 |
| Pima S-5 | 1.43 | .72 | 69.0 | 11.6 | 17.9 |
| P-32 | 1.32 | .68 | 69.4 | 11.4 | 19.5 |
| P-30 | 1.47 | .73 | 66.2 | 11.9 | 17.9 |
| P-36 | 1.38 | .72 | 69.5 | 10.3 | 19.6 |
| Pima S-4 | 1.43 | .71 | 68.4 | 11.4 | 17.7 |
| 126-5 | 1.41 | .71 | 71.1 | 9.5 | 17.8 |
| P-38 | 1.47 | .74 | 69.4 | 11.3 | 17.2 |

Table 73.--Pima test: Yield, boll, and spinning data for Safford (Curtis farm), Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-34 | 1032 a | 3.61 | 41.2 | 12.4 | 5.00 |
| Pima S-5 | 934 ab | 3.69 | 39.8 | 11.4 | 4.70 |
| P-30 | 932 ab | 3.69 | 39.2 | 11.5 | 4.65 |
| P-32 | 922 ab | 3.54 | 39.5 | 9.9 | 4.65 |
| P-38 | 914 ab | 3.70 | 37.8 | 11.9 | 4.45 |
| P-37 | 892 bc | 3.62 | 38.6 | 11.6 | 4.85 |
| P-36 | 885 bc | 3.74 | 39.2 | 12.3 | 4.65 |
| Pima S-4 | 779 c | 3.87 | 38.3 | 11.8 | 4.50 |
| 126-5 | 772 c | 3.17 | 37.5 | 10.7 | 4.70 |
| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| P-34 | 1.39 | 0.72 | 68.5 | 11.8 | 18.9 |
| Pima S-5 | 1.44 | .73 | 70.6 | 11.4 | 17.2 |
| P-30 | 1.46 | .72 | 69.2 | 11.6 | 18.2 |
| P-32 | 1.34 | .69 | 71.0 | 11.2 | 18.5 |
| P-38 | 1.47 | .73 | 71.0 | 11.0 | 17.4 |
| P-37 | 1.41 | .71 | 67.8 | 11.5 | 18.4 |
| P-36 | 1.40 | .74 | 71.8 | 10.3 | 19.5 |
| Pima S-4 | 1.43 | .71 | 69.5 | 11.7 | 17.5 |
| 126-5 | 1.39 | .71 | 72.9 | 11.5 | 18.0 |

Table 74.--Pima test: Yield, boll, and spinning data for Safford (Station), Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-37 | 1027 a | 3.86 | 38.8 | 12.1 | 4.70 |
| P-30 | 937 ab | 3.77 | 38.9 | 12.1 | 4.45 |
| P-34 | 927 ab | 3.72 | 40.8 | 13.0 | 4.90 |
| P-38 | 857 abc | 3.75 | 38.5 | 12.2 | 4.10 |
| P-36 | 842 abc | 3.81 | 38.4 | 13.1 | 4.50 |
| P-32 | 819 bc | 3.58 | 38.8 | 10.7 | 4.55 |
| Pima S-5 | 777 bc | 3.80 | 38.9 | 12.2 | 4.30 |
| Pima S-4 | 740 bc | 4.01 | 37.4 | 12.4 | 4.35 |
| 126-5 | 716 c | 3.27 | 37.9 | 10.9 | 4.45 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | \bar{R}_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| P-37 | 1.46 | 0.72 | 66.3 | 11.9 | 17.9 |
| P-30 | 1.45 | .75 | 67.5 | 11.9 | 17.7 |
| P-34 | 1.44 | .75 | 65.6 | 12.2 | 18.2 |
| P-38 | 1.43 | .72 | 70.0 | 11.3 | 17.4 |
| P-36 | 1.41 | .73 | 70.1 | 11.3 | 19.5 |
| P-32 | 1.32 | .68 | 69.7 | 11.4 | 18.8 |
| Pima S-5 | 1.43 | .72 | 68.4 | 12.0 | 19.5 |
| Pima S-4 | 1.43 | .68 | 68.7 | 11.8 | 17.3 |
| 126-5 | 1.39 | .68 | 71.4 | 9.9 | 17.5 |

Table 75.--Pima test: Yield, boll, and spinning data for Safford (Pace farm), Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| P-37 | 1027 a | 3.69 | 39.0 | 12.2 | 4.85 |
| P-34 | 943 ab | 3.73 | 41.2 | 12.9 | 4.95 |
| P-30 | 900 bc | 3.80 | 38.9 | 12.0 | 4.50 |
| P-32 | 895 bc | 3.72 | 39.0 | 10.7 | 4.50 |
| P-36 | 873 bcd | 3.94 | 38.4 | 13.4 | 4.60 |
| Pima S-5 | 807 cde | 3.86 | 39.0 | 12.9 | 4.30 |
| P-38 | 803 cde | 3.85 | 37.7 | 12.8 | 4.10 |
| 126-5 | 783 de | 3.42 | 37.6 | 11.3 | 4.60 |
| Pima S-4 | 732 e | 3.97 | 37.3 | 12.6 | 4.45 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| P-37 | 1.45 | 0.72 | 67.1 | 11.7 | 18.2 |
| P-34 | 1.41 | .73 | 66.0 | 12.3 | 18.1 |
| P-30 | 1.47 | .73 | 67.1 | 11.6 | 18.4 |
| P-32 | 1.36 | .71 | 69.2 | 11.2 | 19.1 |
| P-36 | 1.45 | .75 | 69.3 | 11.1 | 19.9 |
| Pima S-5 | 1.47 | .75 | 68.9 | 11.4 | 17.8 |
| P-38 | 1.49 | .75 | 68.8 | 11.6 | 17.2 |
| 126-5 | 1.41 | .70 | 71.9 | 10.0 | 17.5 |
| Pima S-4 | 1.43 | .73 | 67.9 | 11.8 | 17.2 |

Table 76.--Pima test: Yield, boll, and spinning data for Marana (Experimental farm), Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| P-37 | 933 a | 3.60 | 37.8 | 12.5 | 4.75 |
| P-34 | 932 a | 3.60 | 40.6 | 12.5 | 4.85 |
| P-30 | 851 ab | 3.67 | 38.6 | 11.8 | 4.50 |
| P-32 | 831 ab | 3.61 | 38.9 | 10.4 | 4.50 |
| Pima S-5 | 809 ab | 3.82 | 39.1 | 12.0 | 4.25 |
| P-36 | 807 ab | 3.73 | 38.4 | 12.4 | 4.50 |
| 126-5 | 766 bc | 3.39 | 37.8 | 10.9 | 4.55 |
| P-38 | 737 bc | 3.75 | 37.6 | 12.4 | 4.15 |
| Pima S-4 | 663 c | 3.91 | 37.3 | 12.2 | 4.35 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | \bar{R}_d | Hunter's <i>b</i> value | |
| P-37 | 1.42 | 0.72 | 66.8 | 11.6 | 18.6 |
| P-34 | 1.36 | .70 | 64.2 | 12.1 | 18.8 |
| P-30 | 1.42 | .71 | 66.4 | 11.8 | 18.1 |
| P-32 | 1.37 | .68 | 70.2 | 11.4 | 18.8 |
| Pima S-5 | 1.44 | .72 | 69.3 | 11.5 | 17.9 |
| P-36 | 1.42 | .72 | 70.9 | 10.9 | 19.3 |
| 126-5 | 1.38 | .69 | 71.4 | 10.1 | 18.3 |
| P-38 | 1.46 | .71 | 69.6 | 11.5 | 17.5 |
| Pima S-4 | 1.44 | .72 | 68.1 | 11.9 | 17.8 |

Table 77.--Pima test: Yield, boll, and spinning data for Coolidge, Ariz.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|---------------|-----------------------|
| P-34 | 916 a | 3.24 | 39.4 | 12.3 | 4.80 |
| P-37 | 794 ab | 3.26 | 36.5 | 11.8 | 4.85 |
| P-38 | 773 ab | 3.39 | 36.8 | 11.7 | 4.40 |
| P-36 | 738 b | 3.31 | 36.8 | 12.7 | 4.80 |
| Pima S-5 | 731 b | 3.33 | 37.9 | 11.7 | 4.65 |
| P-30 | 727 b | 3.17 | 37.2 | 11.4 | 4.70 |
| P-32 | 725 b | 3.04 | 37.0 | 10.5 | 4.70 |
| Pima S-4 | 682 bc | 3.42 | 36.3 | 11.6 | 4.50 |
| 126-5 | 572 c | 2.95 | 34.5 | 11.2 | 4.80 |

| | Span length (inches) | | Colorimeter | | Yarn tenacity (cN/tex) |
|----------------|----------------------|------|-------------|----------------------------|------------------------------|
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | |
| P-34 | 1.40 | 0.71 | 64.7 | 11.8 | 19.5 |
| P-37 | 1.38 | .70 | 65.3 | 11.6 | 19.0 |
| P-38 | 1.43 | .70 | 69.8 | 11.3 | 18.9 |
| P-36 | 1.41 | .74 | 69.1 | 10.9 | 19.9 |
| Pima S-5 | 1.40 | .70 | 68.3 | 11.2 | 18.4 |
| P-30 | 1.49 | .75 | 66.1 | 11.6 | 18.8 |
| P-32 | 1.38 | .72 | 69.3 | 11.6 | 20.1 |
| Pima S-4 | 1.40 | .69 | 67.9 | 11.6 | 17.3 |
| 126-5 | 1.42 | .73 | 69.8 | 10.6 | 18.5 |

Table 78.--Pima test: Yield, boll, and spinning data for El Paso, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-38 | 682 a | 3.74 | 39.4 | 12.2 | 4.65 |
| P-34 | 646 ab | 3.31 | 40.9 | 12.5 | 5.10 |
| Pima S-5 | 581 bc | 3.57 | 39.6 | 12.2 | 4.65 |
| P-32 | 564 bcd | 3.24 | 39.9 | 10.4 | 4.60 |
| P-36 | 562 bcd | 3.55 | 39.2 | 12.4 | 4.70 |
| P-30 | 535 cd | 3.32 | 39.8 | 11.6 | 4.65 |
| P-37 | 502 cde | 3.24 | 39.1 | 11.5 | 4.90 |
| 126-5 | 475 de | 3.31 | 38.3 | 10.9 | 4.65 |
| Pima S-4 | 425 e | 3.47 | 38.7 | 11.4 | 4.55 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| P-38 | 1.44 | 0.73 | 70.4 | 10.9 | 16.1 |
| P-34 | 1.35 | .69 | 67.2 | 11.8 | 18.0 |
| Pima S-5 | 1.40 | .72 | 69.4 | 11.2 | 17.5 |
| P-32 | 1.36 | .71 | 70.8 | 11.0 | 18.1 |
| P-36 | 1.47 | .79 | 69.8 | 10.1 | 19.1 |
| P-30 | 1.45 | .73 | 68.9 | 10.9 | 17.1 |
| P-37 | 1.39 | .71 | 67.1 | 11.2 | 17.4 |
| 126-5 | 1.46 | .71 | 71.7 | 10.5 | 17.3 |
| Pima S-4 | 1.36 | .69 | 69.0 | 11.4 | 17.3 |

Table 79.--Pima test: Yield, boll, and spinning data for Las Cruces, N. Mex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-34 | 636 a | 3.30 | 41.1 | 12.5 | 4.70 |
| P-38 | 594 ab | 3.57 | 38.2 | 12.7 | 4.00 |
| P-37 | 587 ab | 3.53 | 38.7 | 12.0 | 4.60 |
| P-30 | 585 ab | 3.53 | 39.3 | 12.1 | 4.50 |
| P-32 | 514 bc | 3.55 | 38.9 | 10.7 | 4.30 |
| Pima S-5 | 484 cd | 3.64 | 39.7 | 12.1 | 4.25 |
| P-36 | 465 cd | 3.68 | 38.2 | 12.5 | 4.30 |
| 126-5 | 444 cd | 3.10 | 38.0 | 11.1 | 4.35 |
| Pima S-4 | 423 d | 3.73 | 37.8 | 11.9 | 4.45 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| | | | | | |
| P-34 | 1.41 | 0.75 | 68.3 | 11.7 | 17.5 |
| P-38 | 1.49 | .77 | 71.7 | 10.4 | 16.4 |
| P-37 | 1.45 | .73 | 67.7 | 10.5 | 17.8 |
| P-30 | 1.45 | .75 | 68.8 | 11.3 | 17.6 |
| P-32 | 1.36 | .72 | 71.8 | 10.3 | 19.1 |
| Pima S-5 | 1.48 | .77 | 70.0 | 10.2 | 16.6 |
| P-36 | 1.44 | .76 | 71.7 | 9.9 | 19.4 |
| 126-5 | 1.47 | .73 | 69.8 | 9.3 | 16.5 |
| Pima S-4 | 1.44 | .74 | 71.3 | 9.9 | 17.3 |

Table 80.--Pima test: Yield, boll, and spinning data for Pecos, Tex.

| Variety | Lint yield (lb/acre) | Boll size (g/boll) | Lint percent | Seed index | Micronaire reading |
|----------------|-------------------------|-----------------------|-----------------|----------------------------|------------------------------|
| P-34 | 590 a | 3.50 | 40.8 | 13.1 | 4.85 |
| P-37 | 501 ab | 3.56 | 39.0 | 12.3 | 4.70 |
| P-38 | 438 bc | 3.70 | 39.5 | 11.9 | 4.15 |
| 126-5 | 424 bcd | 3.42 | 38.2 | 11.2 | 4.45 |
| P-32 | 372 cd | 3.45 | 39.1 | 10.8 | 4.50 |
| Pima S-4 | 312 d | 3.54 | 37.7 | 12.1 | 4.30 |
| Pima S-5 | 305 d | 3.55 | 38.5 | 12.0 | 4.15 |
| P-36 | 303 d | 3.79 | 38.6 | 13.0 | 4.60 |
| P-30 | 302 d | 3.52 | 39.3 | 12.0 | 4.50 |
| | Span length (inches) | | Colorimeter | | |
| | 2.5% | 50% | R_d | Hunter's <i>b</i> value | Yarn tenacity (cN/tex) |
| P-34 | 1.44 | 0.76 | 66.4 | 11.7 | 18.0 |
| P-37 | 1.45 | .72 | 67.7 | 11.2 | 18.4 |
| P-38 | 1.50 | .78 | 69.9 | 11.2 | 17.3 |
| 126-5 | 1.45 | .76 | 71.7 | 10.2 | 16.8 |
| P-32 | 1.36 | .70 | 71.4 | 10.3 | 19.3 |
| Pima S-4 | 1.46 | .74 | 69.2 | 11.1 | 17.5 |
| Pima S-5 | 1.48 | .78 | 68.6 | 11.3 | 17.9 |
| P-36 | 1.46 | .79 | 70.8 | 10.1 | 19.6 |
| P-30 | 1.45 | .73 | 68.1 | 11.2 | 17.2 |

COMBED-YARN TEST

Table 81.--Combed-yarn test: El Paso, Tex.

| Test | Variety | | | | |
|-------------------------------|----------|----------|------|-------|------|
| | Pima S-4 | Pima S-5 | P-30 | P-32 | P-34 |
| Classer's designation: | | | | | |
| Grade | 7 | 5 | 5 | 5 | 6 |
| Staple: 32's inch | 46 | 46 | 46 | 42 | 42 |
| Yarn tenacity, cN/tex: | | | | | |
| 11.8 tex, combed | 15.7 | 14.7 | 16.2 | 17.4 | 15.0 |
| 7.4 tex, combed | 13.1 | 12.8 | 13.5 | 14.6 | 12.8 |
| Yarn appearance index ... | 120 | 115 | 120 | 125 | 120 |
| Yarn imperfections: | | | | | |
| 11.8 tex, combed | 1 | 3 | 3 | 1 | 2 |
| 7.4 tex, combed | 1 | 2 | 2 | 1 | 1 |
| Waste, percent: | | | | | |
| Picker and card | 11.0 | 11.0 | 11.5 | 8.7 | 10.2 |
| Comber | 14.7 | 15.0 | 15.8 | 15.0 | 14.2 |
| | | | | | |
| | P-36 | P-37 | P-38 | 126-5 | |
| Classer's designation: | | | | | |
| Grade | 7 | 6 | 6 | 7 | |
| Staple: 32's inch | 46 | 46 | 44 | 42 | |
| Yarn tenacity, cN/tex: | | | | | |
| 11.8 tex, combed | 17.9 | 16.0 | 15.7 | 15.5 | |
| 7.4 tex, combed | 15.4 | 13.5 | 13.5 | 13.1 | |
| Yarn appearance index ... | 120 | 120 | 120 | 110 | |
| Yarn imperfections: | | | | | |
| 11.8 tex, combed | 1 | 1 | 2 | 2 | |
| 7.4 tex, combed | 2 | 2 | 1 | 2 | |
| Waste, percent: | | | | | |
| Picker and card | 13.4 | 10.9 | 12.5 | 13.0 | |
| Comber | 14.7 | 15.5 | 14.4 | 15.7 | |

Table 82.--Combed-yarn test: Phoenix, Ariz.

| Test | Variety | | | | |
|-------------------------------|----------|----------|------|-------|------|
| | Pima S-4 | Pima S-5 | P-30 | P-32 | P-34 |
| Classer's designation: | | | | | |
| Grade | 7 | 8 | 8 | 6 | 7 |
| Staple: 32's inch | 46 | 46 | 46 | 46 | 46 |
| Yarn tenacity, cN/tex: | | | | | |
| 11.8 tex, combed | 15.3 | 15.7 | 16.0 | 16.9 | 16.0 |
| 7.4 tex, combed | 12.8 | 13.9 | 13.9 | 14.3 | 13.5 |
| Yarn appearance index ... | 120 | 125 | 115 | 125 | 120 |
| Yarn imperfections: | | | | | |
| 11.8 tex, combed | 1 | 1 | 2 | 1 | 1 |
| 7.4 tex, combed | 2 | 1 | 2 | 2 | 1 |
| Waste, percent: | | | | | |
| Picker and card | 11.9 | 11.2 | 13.3 | 11.2 | 11.0 |
| Comber | 14.2 | 13.6 | 15.0 | 12.8 | 12.8 |
| | | | | | |
| | P-36 | P-37 | P-38 | 126-5 | |
| Classer's designation: | | | | | |
| Grade | 7 | 8 | 8 | 9 | |
| Staple: 32's inch | 46 | 46 | 46 | 46 | |
| Yarn tenacity, cN/tex: | | | | | |
| 11.8 tex, combed | 16.9 | 16.5 | 16.0 | 15.5 | |
| 7.4 tex, combed | 14.6 | 13.9 | 13.5 | 13.1 | |
| Yarn appearance index ... | 120 | 115 | 110 | 120 | |
| Yarn imperfections: | | | | | |
| 11.8 tex, combed | 1 | 1 | 2 | 2 | |
| 7.4 tex, combed | 1 . | 2 | 2 | 2 | |
| Waste, percent: | | | | | |
| Picker and card | 12.7 | 11.6 | 16.2 | 15.9 | |
| Comber | 12.2 | 14.0 | 14.2 | 13.3 | |

Table 83.--Combed-yarn test: Safford, Ariz.

| Test | Variety | | | | |
|-------------------------------|----------|----------|------|-------|------|
| | Pima S-4 | Pima S-5 | P-30 | P-32 | P-34 |
| Classer's designation: | | | | | |
| Grade | 7 | 7 | 6 | 7 | 7 |
| Staple: 32's inch | 46 | 46 | 46 | 44 | 46 |
| Yarn tenacity, cN/tex: | | | | | |
| 11.8 tex, combed | 14.3 | 15.0 | 15.7 | 16.2 | 14.8 |
| 7.4 tex, combed | 12.0 | 12.8 | 12.8 | 13.9 | 12.8 |
| Yarn appearance index ... | 110 | 120 | 115 | 120 | 115 |
| Yarn imperfections: | | | | | |
| 11.8 tex, combed | 3 | 2 | 3 | 2 | 1 |
| 7.4 tex, combed | 3 | 2 | 3 | 1 | 1 |
| Waste, percent: | | | | | |
| Picker and card | 12.3 | 11.6 | 11.5 | 10.9 | 11.8 |
| Comber | 15.6 | 13.9 | 14.4 | 14.0 | 12.9 |
| | | | | | |
| | P-36 | P-37 | P-38 | 126-5 | |
| Classer's designation: | | | | | |
| Grade | 7 | 7 | 7 | 8 | |
| Staple: 32's inch | 46 | 46 | 46 | 46 | |
| Yarn tenacity, cN/tex: | | | | | |
| 11.8 tex, combed | 16.5 | 15.3 | 15.3 | 14.6 | |
| 7.4 tex, combed | 13.9 | 12.8 | 13.1 | 12.4 | |
| Yarn appearance index ... | 120 | 110 | 110 | 115 | |
| Yarn imperfections: | | | | | |
| 11.8 tex, combed | 2 | 3 | 2 | 3 | |
| 7.4 tex, combed | 1 | 2 | 3 | 3 | |
| Waste, percent: | | | | | |
| Picker and card | 13.5 | 11.7 | 12.9 | 15.6 | |
| Comber | 10.4 | 13.8 | 14.4 | 16.4 | |

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